



Application Note 55143
(Revision D)
Original Instructions

Engine Application List **Woodward Diesel Systems Equipment**

Matches Woodward Diesel Engine Equipment
to Engine Model & Manufacturer

IMPORTANT



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DEFINITIONS

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- **IMPORTANT**—Designates an operating tip or maintenance suggestion.

WARNING

The engine, turbine, or other type of prime mover should be equipped with an overspeed shutdown device to protect against runaway or damage to the prime mover with possible personal injury, loss of life, or property damage.

The overspeed shutdown device must be totally independent of the prime mover control system. An overtemperature or overpressure shutdown device may also be needed for safety, as appropriate.



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment. Practice all plant and safety instructions and precautions. Failure to follow instructions can cause personal injury and/or property damage.



This publication may have been revised or updated since this copy was produced. To verify that you have the latest revision, be sure to check the *publications page* on the Woodward website:

www.woodward.com/searchpublications.aspx

The current revision and distribution restriction of all publications are shown in manual **26311**.

The latest version of most publications is available on the *publications page*. If your publication is not there, please contact your customer service representative to get the latest copy.



Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

NOTICE

To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual **82715**, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules*.

Woodward reserves the right to update any portion of this publication at any time. Information provided by Woodward is believed to be correct and reliable. However, no responsibility is assumed by Woodward unless otherwise expressly undertaken.

© Woodward 2007
All Rights Reserved

Contents

CHAPTER 1. GENERAL INFORMATION	2
Assembly Type Number Coding Structure.....	3
CHAPTER 2. MANUFACTURER CROSS-REFERENCE.....	4
CHAPTER 3. ALPHANUMERIC INDEX	6
Pumps	6
Injectors.....	8
Unit Injectors	9
Nozzle Holder / Injector Type.....	10
CHAPTER 4. ENGINE APPLICATION LIST	11
Allen Diesels	11
Anglo Belgian Corporation	14
A/S Grenaa Motorfabrik	15
British Polar Engines.....	15
Cockerill Mechanical Industries	16
Dalian Locomotive Works	16
GE Transportation Systems.....	16
Goodrich.....	17
Hedemora Diesel	19
IHC Holland.....	19
MAN Diesel, Mirrlees Blackstone.....	20
MAN Diesel, Paxman.....	29
MAN Diesel, Ruston.....	32
MOD (Navy)	38
Perkins Engines	39
Rolls-Royce Power Engineering	40
Skoda Diesel	42
Wärtsilä	43
Waukesha Engine Division	47

Chapter 1.

General Information

This Engine Application List (EAL) is published to provide rapid identification of the Woodward Diesel Systems equipment fitted to different engine variants from the major engine manufacturers. This list is updated as of January 2007.

Note that there may be instances where engines of identical type have been fitted with fuel injection equipment which differs from that listed. It is important, therefore, to quote the type-code of the equipment in use when ordering replacement parts.

The definition of the CURRENT RANGE and SUPERSEDING columns is as follows:

Current Range

The "Current Range" column indicates either the **typecode** that is currently being fitted by the engine manufacturer or, in the case of engines that are no longer being manufactured, the last **typecode** that was fitted.

Superseding

The "Superseding" column details earlier versions of equipment as fitted to that particular application. Although the engine manufacturer may have 'superseded' one product for another as regards new engine build, this does not necessarily mean that the earlier version is invalid in terms of aftermarket servicing and supply.

When considering supply of spare parts for particular applications, users should always quote the part number of the product that they physically have and not the item number that appears to supersede it. Due to the longevity of many diesel engines, the end user may still refer to these previous typecodes.

Woodward no longer manufactures the following diesel system equipment:

- FA, FB, or FZ series Fuel Pumps
 - NR or NS series of Nozzle Holders and associated 'S' size Nozzles
- However, relating data has been retained within Woodward Diesel Systems. Any associated queries you may have should be directed to the Customer Services Department.

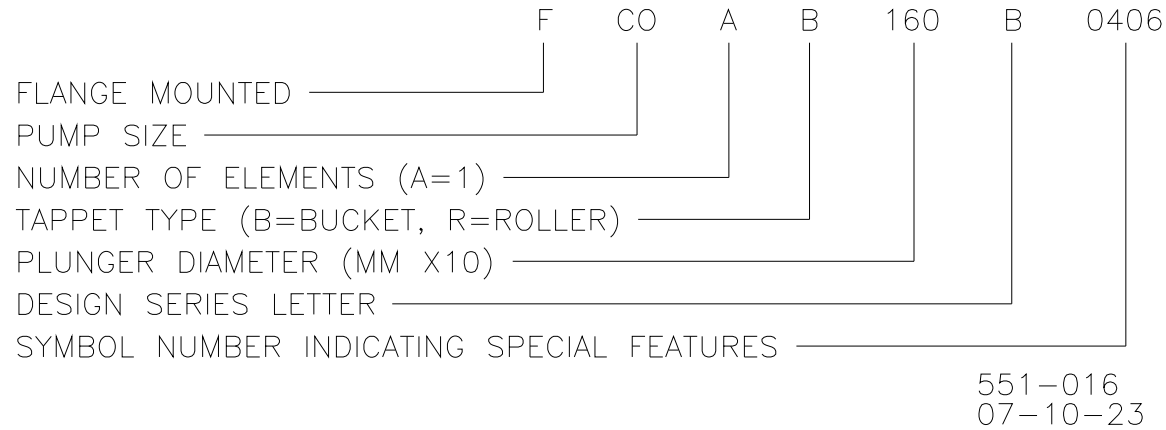
If you have a need for additional or change information to be included in the EAL or for other applications to be added, please contact the Woodward Customer Services Department. Your requirements will then be considered at the next revision point.

Woodward Diesel Systems strives to achieve the maximum accuracy of the information provided within this document, but no liability can be accepted by Woodward for damage, loss or injury caused by any errors in the information within this EAL.

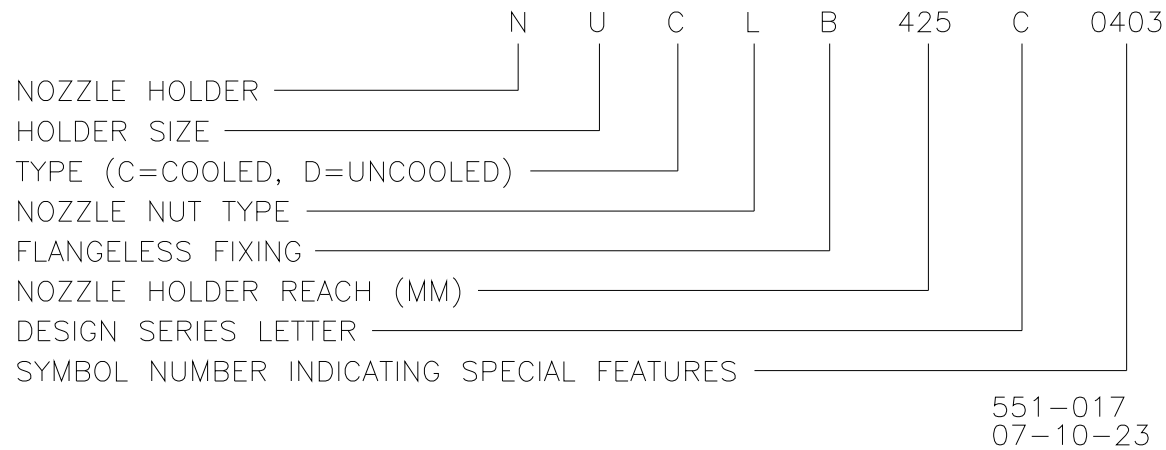
To guarantee the safety, performance, and reliability of the equipment, only genuine Woodward spares must be used during rework.

Assembly Type Number Coding Structure

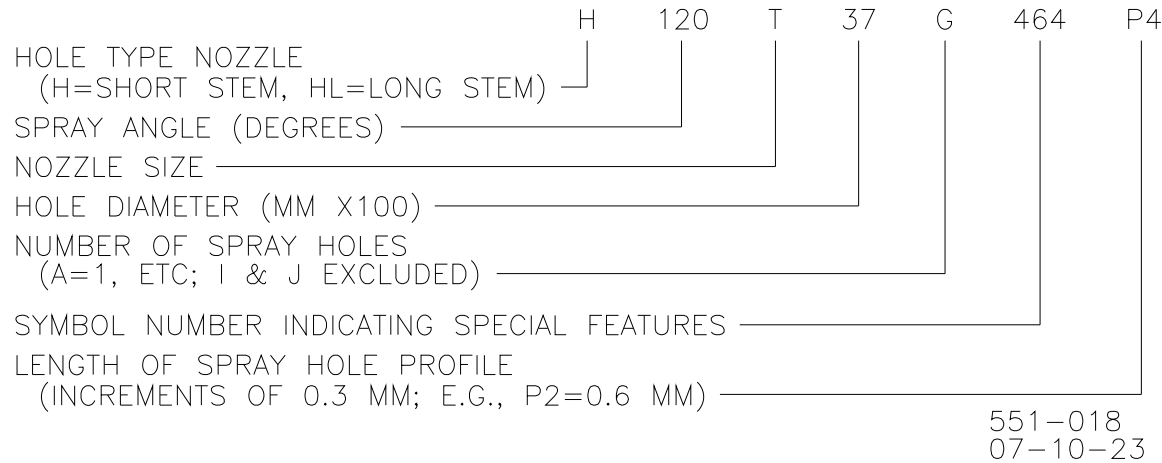
Pump Assembly Coding



Nozzle Holder Coding



Nozzle Assembly Coding (Hole Type)



Chapter 2.
Manufacturer Cross-Reference

IMPORTANT The following engine manufacturers are covered in this issue of the Engine Application List. For other engine manufacturers, see the cross-reference list below.

Allen Diesels
 Anglo Belgian Corporation
 A/S Grenaa Motorfabrik
 British Polar Engines
 Cockerill Mechanical Industries
 Dalian Locomotive Works
 GE Transportation Systems

Goodrich
 Hedemora Diesel
 IHC Holland
 Man Diesel, Mirrlees Blackstone
 Man Diesel, Paxman
 Man Diesel, Ruston

MOD (Navy)
 Perkins Engines
 Rolls-Royce Power Engineering
 Skoda Diesel
 Wärtsilä
 Waukesha Engine Division

<u>Engine Manufacturer</u>	<u>Refer to:</u>
A.S Wichmann-----	Wärtsilä
Alco Power Inc-----	Goodrich
Alstom Engines, Mirrlees Blackstone-----	MAN Diesel, Mirrlees Blackstone
Alstom Engines, Paxman Division-----	MAN Diesel, Paxman
Alstom Engines, Ruston Division-----	MAN Diesel, Ruston
Bergen Diesel AS-----	Rolls-Royce Power Engineering
Blackstone-----	MAN Diesel, Mirrlees Blackstone
Bolnes-----	Wärtsilä
Bombardier Inc-----	Goodrich
Brons-----	Waukesha Engine Division
Chantiers du Nord et de la Méditerranée-----	Wärtsilä
Chantiers Navals de la Ciotat-----	Wärtsilä
Coltec (Alco)-----	Goodrich
Coltec Industries-----	Goodrich
Crepelle & Cie-----	Wärtsilä
Crossley-----	Rolls-Royce Power Engineering
Crossley Premier Engines-----	Rolls-Royce Power Engineering
Cummins Wärtsilä-----	Wärtsilä
Davey Paxman-----	MAN Diesel, Paxman
Dorman Diesels-----	Perkins Engines
Dresser – Dujardin-----	Wärtsilä
Duvant-----	Wärtsilä
Duvant Crepelle Moteurs Diesel-----	Wärtsilä
English Electric-----	MAN Diesel, Ruston
GEC Alsthom Paxman Diesels-----	MAN Diesel, Paxman
GEC Alsthom Ruston Diesels-----	MAN Diesel, Ruston
General Electric Corporation-----	GE Transportation Systems
Mirrlees Blackstone-----	MAN Diesel, Mirrlees Blackstone
Mirrlees National-----	MAN Diesel, Mirrlees Blackstone
Mirrlees Stamford-----	MAN Diesel, Mirrlees Blackstone
Mirrlees Stockport-----	MAN Diesel, Mirrlees Blackstone

<u>Engine Manufacturer</u>	<u>Refer to:</u>
Montreal Locomotive Works-----	Goodrich
Moteurs Diesel D.L.D. Etablissements-----	Duvant, Wärtsilä
Motorenabriek Brons De Industrie NV-----	Waukesha Engine Division
National Gas & Oil Engine Co-----	MAN Diesel, Mirrlees Blackstone
NEI-APE Bellis-----	Rolls-Royce Power Engineering
NEI-APE Crossley-----	Rolls-Royce Power Engineering
New Sulzer Diesel-----	Wärtsilä
Nohab AB-----	Wärtsilä
Paxman Diesels-----	MAN Diesel, Paxman
Perkins (Dorman)-----	Perkins Engines
Perkins Engines (Shrewsbury)-----	Perkins Engines
Perkins Group-----	Perkins Engines
Rolls-Royce-----	Perkins Engines (ex Rolls-Royce, Shrewsbury)
Rolls-Royce Power Engineering (W H Allen) --	Allen Diesels
Ruston Diesels-----	MAN Diesel, Ruston
Stork Wärtsilä Diesel Netherlands-----	Wärtsilä
Sulzer-----	Wärtsilä
Ulstein Bergen-----	Rolls-Royce Power Engineering
Varity Perkins-----	Perkins Engines
W H Allen-----	Allen Diesels
Wärtsilä (Duvant Crepelle)-----	Wärtsilä
Wärtsilä (SACM Diesel)-----	Wärtsilä
Wärtsilä Diesel AB-----	Wärtsilä
Wärtsilä Diesel Finland-----	Wärtsilä
Wärtsilä Diesel International SARL-----	Wärtsilä
Wärtsilä Diesel Oy-----	Wärtsilä
Wärtsilä Diesel Sweden-----	Wärtsilä
Wärtsilä Propulsion, Norway-----	Wärtsilä
Werkspoor-----	Wärtsilä

Chapter 3. Alphanumeric Index

Pumps

<u>Pump Type</u>	<u>Engine Manufacturer</u>
ECVAB220D0910 -----	General Electric
FCCAB160B0339 -----	Ruston Diesels
FCCAB160B0348 -----	Paxman Diesels
FCCAB160B0432 -----	Paxman Diesels
FCCAB160B0529 -----	Warstila (SACM)
FCCAB160B0592 -----	Mirrlees (Stockport)
FCCAB180B0335 -----	Ruston Diesels
FCCAB180B0339 -----	Ruston Diesels
FCCAB180B0370 -----	Ruston Diesels
FCCAB180B0376 -----	W H Allen
FCCAB180B0444 -----	Brons
FCCAB180B0444 -----	Warstila (Duvant Crepelle)
FCCAB180B0547 -----	Anglo Belgian
FCCAB180B0584 -----	Ulstein Bergen As
FCCAB180B0648 -----	Warstila (Duvant Crepelle)
FCCAB180B0693 -----	Wärtsilä (Duvant Crepelle)
FCCAB180B0694 -----	Mirrlees (Stamford)
FCCAB180B0715 -----	Stork Wärtsilä Diesel (Bolnes)
FCCAB180B0717 -----	W H Allen
FCCAB180B0723 -----	W H Allen
FCCAB200B0275 -----	Ruston Diesels
FCCAB200B0335 -----	Ruston Diesels
FCCAB200B0339 -----	Ruston Diesels
FCCAB200B0346 -----	Paxman Diesels
FCCAB200B0376 -----	W H Allen
FCCAB200B0388 -----	Ruston Diesels
FCCAB200B0433 -----	Paxman Diesels
FCCAB200B0443 -----	Cockerill
FCCAB200B0444 -----	Wärtsilä (Duvant Crepelle)
FCCAB200B0511 -----	Cockerill
FCCAB200B0551 -----	Wärtsilä (SACM)
FCCAB200B0584 -----	Ulstein Bergen
FCCAB200B0611 -----	W H Allen
FCCAB200B0619 -----	Wärtsilä (SACM)
FCCAB200B0637 -----	Cockerill
FCCAB200B0648 -----	Wärtsilä (Duvant Crepelle)
FCCAB200B0677 -----	Ruston Diesels
FCCAB200B0678 -----	Ruston Diesels

<u>Pump Type</u>	<u>Engine Manufacturer</u>
FCCAB200B0703 -----	W H Allen
FCCAB200B0813 -----	Mirrlees (Stamford)
FCCAB200B0864 -----	Mirrlees (Stamford)
FCCAB200C0890 -----	Mirrlees (Stamford)
FCCAR180M0603 -----	Paxman Diesels
FCCAR180M0765 -----	Paxman Diesels
FCCAR180M0809 -----	Paxman Diesels
FCCAR180M0819 -----	Paxman Diesels
FCCAR180M0822 -----	Mirrlees (Stamford)
FCCAR180M0850 -----	Paxman Diesels
FCCAR180M0867 -----	Paxman Diesels
FCOAB120C6369 -----	Ruston Diesels
FCOAB140B0055 -----	Ruston Diesels
FCOAB140B6590 -----	Ruston Diesels
FCOAB140C0574 -----	Hedemora
FCOAB140C6528 -----	W H Allen
FCOAB140C6535 -----	Paxman Diesels
FCOAB140C6536 -----	Paxman Diesels
FCOAB140C6603 -----	Paxman Diesels
FCOAB160A0126 -----	Stork Wärtsilä Diesel
FCOAB160B0055 -----	Ruston Diesels
FCOAB160B0094 -----	Mirrlees (Stockport)
FCOAB160B0147 -----	W H Allen
FCOAB160B0231 -----	Mirrless (Stockport)
FCOAB160B0406 -----	Brons
FCOAB160B0406 -----	Stork Wärtsilä Diesel
FCOAB160B0428 -----	Stork Wärtsilä Diesel
FCOAB160C6083 -----	W H Allen
FCOAB160C6179 -----	Mirrlees (Stamford)
FCOAB160C6528 -----	W H Allen
FCOAB160C6589 -----	Ruston Diesels
FCOAB160C6590 -----	Ruston Diesels
FCOAB180B0094 -----	Mirrlees (Stockport)
FCOAB180B0125 -----	Mirrlees (Stamford)
FCOAB180B0147 -----	W H Allen
FCOAB180B0231 -----	Mirrlees (Stockport)
FCOAB180B0407 -----	Wärtsilä (Duvant Crepelle)
FCOAB180B0555 -----	Mirrlees (Stamford)

Pump Type	Engine Manufacturer
FCQAB150A0372	Coltec (Alco)
FCQAB160A0372	Coltec (Alco)
FCQAB170A0571	Coltec (Alco)
FCQAB170A0753	Coltec (Alco)
FCQAB170A0921	Coltec (Alco)
FCQAB180A0565	Coltec (Alco)
FCVAB180B0776	Wärtsilä (Duvant Crepelle)
FCVAB180B0745	W H Allen
FCVAB180B0838	General Electric
FCVAB180B0887	General Electric
FCVAB180C0881	W H Allen
FCVAB200B0670	Anglo Belgian
FCVAB200B0714	Anglo Belgian
FCVAB200B0719	W H Allen
FCVAB200B0726	Wärtsilä (Duvant Crepelle)
FCVAB200B0738	W H Allen
FCVAB200B0764	Ulstein Bergen As
FCVAB200B0801	Mirrlees (Stamford)
FCVAB200B0899	Mirrlees (Stamford)
FCVAB200B1037	Anglo Belgian
FCVAB200C0714	Anglo Belgian
FCVAB200C0729	Ruston Diesels
FCVAB200C0890	Mirrlees (Stamford)
FCVAB220B0661	Wärtsilä (SACM)
FCVAB220B0663	Wärtsilä (SACM)
FCVAB220B0683	Ruston Diesels
FCVAB220B0684	Ruston Diesels
FCVAB220B0698	Wärtsilä (Duvant Crepelle)
FCVAB220B0726	Wärtsilä (Duvant Crepelle)
FCVAB220B0832	Wärtsilä (SACM)
FCVAB200C0857	Ulstein Bergen As
FCVAB200C0917	W H Allen
FCVAB220C0862	Ruston Diesels
FCVAB220C0901	Dalian
FCVAB220C0908	Ulstein Bergen
FCVAB220C1032	Dalian
FCVAB220C1096	Dalian
FCWAB240A0894	Ruston Diesels
FDDAB280A0522	Mirrlees (Stockport)

Pump Type	Engine Manufacturer
FDDAB280A0644	Mirrlees (Stockport)
FDDAB280A0721	Mirrlees (Stockport)
FDDAB280A0807	Mirrlees (Stockport)
FDDAB300A0845	Mirrlees (Stockport)
FEEAB340A0855	Mirrlees (Stockport)
FEEAB340A0905	Mirrlees (Stockport)
FEOAB300B0328	Ruston Diesels
FEOAB270C0426	Stork Wärtsilä Diesel
FEOAB300C0621	Stork Wärtsilä Diesel
FEOAB300D0829	Stork Wärtsilä Diesel
FFOAB460A0720	Stork Wärtsilä Diesel
FFOAB460A0795	Stork Wärtsilä Diesel
FFOAB460A0868	Stork Wärtsilä Diesel
FFOAB460A0886	Stork Wärtsilä Diesel
FFOAB460A0914	Stork Wärtsilä Diesel
FWVAB240A0746	W H Allen
FWVAR260A0697	Ruston Diesels
FWVAR200B0699	Mirrlees (Stockport)
FWVAR240A0844	Mirrlees (Stockport)
FWVAR240B0866	Mirrlees (Stockport)
FWVAR240C0872	Mirrlees (Stockport)
FXA0B180B0182	Mirrlees (Stockport)
FXOAB180B0274	W H Allen
FXOAB190B0270	Sulzer
FXOAB200B0096	Mirrlees (Stockport)
FXOAB200B0182	Mirrlees (Stockport)
FXOAB200B0274	W H Allen
FXOAB200B0450	W H Allen
FXOAB200B0658	W H Allen
FXOAB200B0665	W H Allen
FXOAB240B0357	Mirrlees (Stockport)
FXXAB240A0408	Mirrlees (Stockport)
FXXAB260A0476	Mirrlees (Stockport)
FXXAB260B0422	Mirrlees (Stockport)
FXXAB260B0595	W H Allen
FXXAB280A0465	Mirrlees (Stockport)
FXXAB300B0430	Mirrlees (Stockport)
FXXAB300B0534	Mirrlees (Stockport)
FXXAB300B0549	Mirrlees (Stockport)

Injectors

Injector Type	Engine Manufacturer
99/211	W H Allen
99/257	Ruston Diesels
99/259	Rolls Royce
99/261	Ruston Diesels
99/262	Sulzer
99/263	Ruston Diesels
99/264	Ruston Diesels
99/269	Rolls Royce
99/289	Rolls Royce
99/305	Ruston Diesels
99/316	Sulzer
99/319	Paxman Diesels
99/322	Mirrlees (Stockport)
99/323	Mirrlees (Stockport)
99/330	Rolls Royce
99/331	Rolls Royce
99/332	Mirrlees (Stamford)
99/338	W H Allen
99/340	Coltec (Alco)
99/341	Coltec (Alco)
99/350	W H Allen
99/351	W H Allen
99/352	W H Allen
99/357	Paxman Diesels
99/358	Paxman Diesels
99/359	Ruston Diesels
99/360	Ruston Diesels
99/362	Ruston Diesels
99/363	Paxman Diesels
99/364	W H Allen
99/367	Ulstein Bergen As
99/380	Stork Wärtsilä Diesel
99/381	Stork Wärtsilä Diesel
99/388	Ulstein Bergen As
99/389	Ulstein Bergen As
99/390	Coltec (Alco)
99/391	Ulstein Bergen As
99/396	Mirrlees (Stamford)
99/397	Mirrlees (Stamford)
99/399	Mirrlees (Stamford)
99/400	Hedemora
99/402	Paxman Diesels

Injector Type	Engine Manufacturer
99/406	Coltec (Alco)
99/408	W H Allen
99/409	W H Allen
99/410	Stork Wärtsilä Diesel
99/412	Coltec (Alco)
99/413	Coltec (Alco)
99/414	Paxman Diesels
99/416	Ulstein Bergen As
99/418	Cockerill
99/419	Paxman Diesels
99/422	W H Allen
99/427	Cockerill
99/433	Ruston Diesels
99/434	Ruston Diesels
99/435	Ruston Diesels
99/437	Ulstein Bergen As
99/442	W H Allen
99/443	W H Allen
99/444	Paxman Diesels
99/446	W H Allen
99/447	W H Allen
99/448	Ruston Diesels
99/449	Ruston Diesels
99/450	Ulstein Bergen As
99/451	W H Allen
99/453	Cockerill
99/454	Anglo Belgian
99/456	Mirrlees (Stockport)
99/457	Mirrlees (Stockport)
99/458	Stork Wärtsilä Diesel (Bolnes)
99/459	Ruston Diesels
99/460	Mirrlees (Stockport)
99/461	Paxman Diesels
99/463	Coltec (Alco)
99/469	General Electric
99/471	Paxman Diesels
99/472	Ruston Diesels
99/473	Ruston Diesels
99/474	Ruston Diesels
99/475	Ruston Diesels
99/476	Ruston Diesels
99/477	Ruston Diesels

Injector Type	Engine Manufacturer
99/480	Hedemora
99/481	Ruston Diesels
99/482	Ruston Diesels
99/483	Ruston Diesels
99/484	Paxman Diesels
99/486	Stork Wärtsilä Diesel
99/487	Mirrlees (Stockport)
99/488	Mirrlees (Stockport)
99/489	Mirrlees (Stockport)
99/490	Mirrlees (Stamford)
99/494	Rolls Royce
99/502	W H Allen
99/503	Ruston Diesels
99/504	Mirrlees (Stockport)
99/509	W H Allen
99/511	Mirrlees (Stockport)
99/515	Ruston Diesels
99/523	Stork Wärtsilä Diesel
99/524	Mirrlees (Stockport)
99/526	Mirrlees (Stockport)
99/530	Mirrlees (Stockport)
99/531	Mirrlees (Stockport)
99/537	Mirrlees (Stamford)
99/539	Mirrlees (Stamford)
99/540	Paxman Diesels
99/541	Mirrlees (Stockport)
99/543	Mirrlees (Stamford)
99/544	Mirrlees (Stamford)
99/545	Mirrlees (Stamford)
99/547	Ruston Diesels
99/553	General Electric
99/554	W H Allen
99/555	Ruston Diesels
99/556	General Electric
99/557	Ruston Diesels
99/558	Ruston Diesels
99/559	Mirrlees (Stockport)
99/660	Dalian
99/661	Mirrlees (Stockport)
99/662	Anglo Belgian
99/663	Anglo Belgian
99/666	Anglo Belgian

Unit Injectors

Injector Type	Engine Manufacturer
97/2T -----	Paxman Diesels
97/4T -----	Perkins (Dorman)
97/8T -----	W H Allen
97/9T -----	Perkins (Dorman)
97/10T-----	Perkins (Dorman)
97/12T-----	Perkins (Dorman)
97/13T-----	W H Allen
97/14T-----	Paxman Diesels
97/15T-----	Paxman Diesels
97/19T-----	Perkins (Dorman)
97/20T-----	Perkins (Dorman)
97/25T-----	Perkins (Dorman)
97/27T-----	Perkins (Dorman)
97/28T-----	Perkins (Dorman)
97/30T-----	Perkins (Dorman)

Nozzle Holder / Injector Type

Nozzle Holder	Injector Type
NTCLB150F0534	99/447
NTCLB200F0540	99/437
NTCLB200H0635	99/558
NTCLB204H0513	99/453
NTCLB250F0475	99/367
NTCLB275H0471	99/338
NTCLB275H0553	99/422
NTCLB275H0586	99/451
NTCLB275H0586	99/554
NTCLB290H0645	99/557
NTCLB310H0616	99/537
NTCLB3780H0589	99/543
NTCLB550H0572	99/457
NTCLB552H0610	99/511
NTDLB123H0522	99/454
NTDLB123H0522	99/662
NTDLB123H0522	99/663
NTDLB123H0522	99/666
NTDLB132H0617	99/660
NTDLB150F0401	99/211
NTDLB150F0511	99/399
NTDLB194H0462	99/402
NTDLB194H0560	99/444
NTDLB194H0560	99/471
NTDLB194H0560	99/484
NTDLB194H0560	99/540
NTDLB200F0401	99/350
NTDLB200F0480	99/364
NTDLB200F0532	99/408
NTDLB200F0533	99/409
NTDLB200H0566	99/433
NTDLB200H0566	99/448
NTDLB200H0566	99/459
NTDLB200H0567	99/434
NTDLB200H0567	99/435
NTDLB200H0567	99/449
NTDLB200H0603	99/515
NTDLB200H0603	99/474
NTDLB200H0603	99/476
NTDLB200H0604	99/473
NTDLB200H0604	99/475
NTDLB200H0604	99/477

Nozzle Holder	Injector Type
NTDLB200H0608	99/481
NTDLB200H0608	99/482
NTDLB200H0608	99/483
NTDLB200H0608	99/503
NTDLB200H0608	99/547
NTDLB204H0513	99/427
NTDLB208F0456	99/418
NTDLB275F0419	99/351
NTDLB275F0419	99/352
NTDLB275F0578	99/443
NTDLB275H0577	99/442
NTDLB290A0646	99/555
NTDLB310H0615	99/531
NTDLB337H0653	99/556
NTDLB370H0599	99/539
NTDLB550H0576	99/456
NTDLB552H0629	99/504
NTDOB080F0558	99/458
NTDOB085F0388	99/380
NTDOB085F0388	99/381
NTDOB125H0451	99/330
NTDOB125H0451	99/331
NTDOB125H0614	99/494
NTDOB132G5169	99/259
NTDOB132G0408	99/269
NTDOB132G0408	99/289
NTDOB150G5132	99/332
NTDOB150G5132	99/396
NTDOB150G5132	99/397
NTDOB150H0531	99/414
NTDOB150H0531	99/419
NTDOB175H0464	99/319
NTDOB175H0464	99/357
NTDOB175H0464	99/363
NTDOB175H0482	99/358
NTDOB175H0482	99/461
NTDOB200F0502	99/388
NTDOB200F0502	99/391
NTDOB200F0539	99/416
NTDOB200G0495	99/359
NTDOB200G0496	99/360
NTDOB200G4658	99/257

Nozzle Holder	Injector Type
NTDOB200G5011	99/261
NTDOB200G5011	99/362
NTDOB200G5033	99/316
NTDOB200G5123	99/305
NTDOB200G5228	99/263
NTDOB200G5228	99/264
NTDOB200H0607	99/480
NTDOB242H0393	99/340
NTDOB242H0393	99/341
NTDOB242H0393	99/390
NTDOB242H0393	99/406
NTDOB242H0393	99/412
NTDOB242H0393	99/413
NTDOB242H0393	99/463
NTDOB250F0502	99/389
NTDOB250F0514	99/400
NTDOB250H0585	99/450
NTDOB337H0594	99/469
NTDOB337H0651	99/553
NTDOB380H0574	99/490
NUCLA250C0631	99/509
NUCLB425C0437	99/322
NUCLB425C0590	99/460
NUCLB425C0590	99/487
NUCLB425C0590	99/524
NUCLB425C0590	99/525
NUCLB425C0590	99/526
NUCLB425C0590	99/559
NUCLB470C0575	99/472
NUDLA250C0626	99/502
NUDLA275C0557	99/446
NUDLB425C0438	99/323
NUDLB425C0612	99/488
NUDLB425C0612	99/489
NUDLB425C0612	99/528
NUDLB425C0612	99/661
NVCOA620C0580	99/541
NVCOA826C0526	99/410
NVCOA826C0526	99/486
NVCOA826C0526	99/523
NVDOA620C0637	99/530

Chapter 4. Engine Application List

Allen Diesels

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
S12 (below 500 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H120T30FP3 (BDL120T6139)	138	
S12 (501 to 650 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H120T30GP3 (BDL120T6140)	138	
BS12, VBS12 (600 to 699 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H120T32GP3 (BDL120T6117)	138	
BS12, VBS12 (700 to 750 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H130T35FP4 (BDL130T6050)	138	
BCS12	FCOAB160C6528 (BPF1C160BS6528)	3/412G (7022/44)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H120T37GP4 (BDL120T6398)	138	
BS12C, VBS12C	FCOAB140C6528 (BPF1C140BS6528)	3/412D (7022/42)	NTDOB150G5165 (BKB150TD5165B)	H120T37FP4 (BDL120T6374)	172	
BCS12C, VBCS12C	FCOAB160C6528 (BPF1C160BS6528)	3/412G (7022/44)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H120T37GP4 (BDL120T6398)	138	
BCS12C, VBCS12C (Special Rating)	FCCAB180B0376 (CC18AS376)	6/110C (6/110C)	NTDLB150F0261 (BL149TF261)	HL140T43F200P4	172	
BCS12D, VBCS12E	FCCAB180B0376 (CC18AS376)	6/110C (6/110C)	NTDLB150F0401	HL140T45F200P3	172	99/211
BCS12D (Heavy Fuel, up to 1500 sec., Redwood)	FCCAB180B0717	6/110C	NTCLB150F0534	HL140T45F785P3	198	99/447
BCS12D (above 1500 sec., Redwood)	FCVAB180B0745	36/115C	NTCLB150F0534	HL140T45F785P3	198	99/447
BCS12D (Dual Fuel)	FCVAB180C0881	36/225C	NTCLB150F0534	HL140T45F785P3	198	99/447
GBCS 12D (Dual Fuel)	FCCAB180B0723 (FCCAB180X0608)	6/451C	NTDLB150F0401	HL140T45F200P3	198	99/211

Allen Diesels

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
VBCS 12F (up to 1974)	FCCAB200B0376	6/110E	NTDLB200F0401	HL140T48F200P4	207	99/350
VBCS 12F (after 1974)	FCCAB200B0611	6/110E	NTDLB200F0532	HL140T48F200P4	241	99/408
VBCS 12F (Sheathed H.P. Pipe, up to 1974)	FCCAB200B0376	6/110E	NTDLB200F0480	HL140T48F200P4	207	99/364
VBCS 12F (Sheathed H.P. Pipe, after 1974)	FCCAB200B0611	6/110E	NTDLB200F0533	HL140T48F200P4	241	99/409
VBCS 12FX (750 rpm)	FCCAB200B0703	6/110E	NTDLB275H0577	HL150T38K775P4 (HL150T40K775P4)	290	99/442
2000 Series (S12F)	FCVAB200B0738 (FCVAB200B0704)	36/141E	NTDLB275H0577	HL150T38K775P4 (HL150T40K775P4)	290	99/442
2000 Series (S12F) (Heavy Fuel)	FCVAB200B0719	36/105E	NTCLB275H0586	HL150T38K785P4 (HL150T40K785P4)	290	99/451
2000 Series (S12F) (Dual Fuel)	FCVAB200C0917	36/275E	NTCLB275H0586	HL150T38K935P4	345	99/554T
2000 Series (S12F) (Dual Fuel)	FCVAB200C0917	36/275E	NTCLB275H0586	HL150T38K935P4P	345	99/668T
3000 Series (VS12G) (Light Fuel, Heavy Fuel)	KCQLT200A0011			HL150T45K897P4 HL150T45K897P4	345 345	97/8T 97/13T
S37B, S37C (375 rpm & above)	FCOAB160B0147 (A1AC160/11S147) (A1AC160/9S147)	3/298G (3/298G) (3/298G)	NTDOB175F0103 (B175TF103)	H130T35H120P6 (BDL130T626)	138	
S37B, S37C (375 rpm & above)	FCOAB160C6083 (BPF1C160BS6083)	3/412G (7022/44)	NTDOB175G0427 (BKB175TD644B) (BKB175TD45B)	H130T35H120P6 (BDL130T626)	138	
BS37C	FCOAB180B0147 (A1AC180/11S147) (A1AC180/9S147)	3/298K (3/298K) (3/298K)	NTDLB175F0103 (BL174F103)	HL130T40H200P4	172	
S37D	FCOAB160C6083 (BPF1C160BS6083)	3/412G (7022/44)	NTDLB175G5001 (BKBL175T5001B)	HL130T35H418P6 (BDLL130T6331)	172	
BCS37D	FXOAB180B0274 (A1AX180/3S274) (A1AX180/1S149)	21/19C (21/19C) (21/19C)	NTDLB175F0103 (BL174TF103)	HL130T45H200P4	172	

Allen Diesels

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
BCS37D, VBCS37E (550 to 600 rpm)	FXOAB200B0274 (A1AX200/3S274) (FXOAB200B0354) (A1AX200/3S354)	21/19D (21/19D) (21/194D) (21/194D)	NTDLB175F0103 (BL174TF103)	HL130T45H200P4	207	
BCS37E, VBCS37F (below 549 rpm)	FXOAB200B0450 (FXOAB200B0452)	21/19D (21/19D)	NTDLB275F0419	HL150T50G200P4	172	99/351
BCS37E, VBCS37F (550 rpm & above)	FXOAB200B0450 (FXOAB200B0452)	21/19D (21/19D)	NTDLB275F0419	HL150T50G200P4	207	99/352
BCS37E, VBCS37F (Sheathed Pipe)	FXOAB200B0450	21/19D	NTDLB275F0578	HL150T50G200P4	207	99/443
BCS37E, VBCS37F (Heavy Fuel)	FXOAB200B0658 (FXOAB200B0450)	21/19D (21/19D)	NTCLB275H0471	HL150T50G556P4	203	99/338
BCS37E, VBCS37F (Heavy Fuel, Sheathed Pipe)	FXOAB200B0658	21/19D	NTCLB275H0553	HL150T50G556P4	203	99/422
GBCS37E, GVBCS37F (Dual Fuel)	FXOAB200B0665 (FXOAB200B0580)	21/352D (21/322D)	NTCLB275H0471	HL150T50G556P4	203	99/338
GBCS37E, GVBCS37F (Dual Fuel, Sheathed Pipe)	FXOAB200B0665	21/352D	NTCLB275H0553	HL150T50G556P4	203	99/422
GBCS37D (below 549 rpm)	FXOAB200B0274 (A1AX200/3S274)	21/19D (21/19D)	NTDLB175F0237	HL130T40H200P4	172	
GBCS37D (550 rpm & above)	FXOAB200B0274 (A1AX200/3S274)	21/19D (21/19D)	NTDLB175F0237	HL130T45H200P4	172	
4000 Series (S37G)	FXXAB260B0595	22/176E	NUDLA275C0557	HL155U50K820P5	207	99/446
4000 Series (S37G)	FWVAB240A0746	23/183E	NUDLA250C0626 (NUDLA275C060)	HL155U50K820P5	276	99/502U
4000 Series (S37G, Heavy Fuel)	FXXAB260B0595	22/176E	NUCLA275C0527	HL155U50K821P5	207	99/445
4000 Series (S37G, Heavy Fuel)	FWVAB240A0746	23/183E	NUCLA250C0631 (NUCLA250C0625) (NUCLA275C0605)	HL155U50K821P5	276	99/509U
S30C (below 500 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	BDL135T91 (H135T30FP3)	138	99/221
S30C (600 rpm)	FCOAB140C6528 (BPF1C140BS6528) (BPF1C140AS6085)	3/412D (7022/42) (7022/42)	NTDOB150G5165 (BKB150TD5165B) (BKB150TD60B)	H130T30GP4 (BDL130T606)	138	99/302

Allen Diesels

(page 4)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
T47 (below 333 rpm)	FXOAB140A0149 (A1AX140/1S149) (BPF1X140AS6032)	21/19A (21/19A) (7054/23)	NTDLB225F0103 (BL224TF231)	HL140T45F200P3	193	
T47 (above 333 rpm)	FXOAB140A0149 (A1AX140/1S149) (BPF1X140AS6032)	21/19A (21/19A) (7054/23)	NTDLB225F0103 (BL224TF231)	HL140T55F200P4	193	

Anglo Belgian Corporation

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
DXC (Gasoil IFO)	FCCAB180B0547	6/110C	NTDOB175F0497		225	—
DZ (Gasoil 820-850 rpm)	FCVAB200B0670 (FCVAB200X0670)	36/78E	NTDLB123H0522 (NTDLB123X0522)	HL150T44H718P5	234	99/454
DZC	FCVAB200B0670	36/78E	NTDLB123H0522	HL150T38K775P4	275	99/662T
DZC (Gasoil 900–1000 rpm Propulsion)	FCVAB200B0670	36/78E	NTDLB123H0522	HL150T38L748P8	245*	99/663T
DZC (Gasoil 900–1000 rpm Gensets)	FCVAB200C0670 (PUDV)	36/78E	NTDLB123H0522	HL150T38L748P8	245*	99/663T
DZC (Gasoil 1000 rpm Railways)	FCVAB200B1037	36/356E	NTDLB123H0522	HL150T38L748P8	245*	99/663T
DZC (HFO 720–900 rpm)	FCVAB200B0714	36/78E	NTCLB123H0582	XHL150T44H795P5	240	99/666T
DZC (HFO 1000 rpm)	FCVAB200C0714 (PUDV)	36/78E	NTDLB123H0582	XHL150T44H795P5	240	99/666T

* Set by ABC to 275 Bar in Service
Proposed Supersession by 99/671T using Nozzle HL150T38L1058P8 (Not Implemented)

A/S Grenaa Motorfabrik

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
6FR24TK	FCCAB180B0597	6/100C				

British Polar Engines

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
MM (Polar Pump)			NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H100T38H202P5 (BDL100T607) (H100T38HP4)		
MM supercharged (Polar Pump)			NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H100T42H503P4 (BDL100T6375)		
MM	(BPF1D180AS6439)	(7003/106B)	NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H100T42H530P4 BDL100TY6239		
MM (Polar Pump)			NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H110T38H202P5 (BDL110T674)		
M1 (Polar Pump)			NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H115T27L202P5 (BDL115T590)		
M1	(BPF1C180AYS6430)	(7022/58)	NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H115T32L205P6 (BDL115TX2155)		
M1 (Polar Pump)			NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H124T27L149P5 (BDL124T653)		
TMM	(BPF1D180AS6406)	(7003/106B)	NTDOB125G4644 (BKB125T644B) (BKB125T45B)	H100T38H202P5 (BDL100T607) (H100T38HP4) (BDL100T6375)		
F10	FCCAB200B0439	6/110E	NTDOB200F0493 (NTDOB200F0469)	H155T34HP5 (H155T34H518P5)	276	99/439

Cockerill Mechanical Industries

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
T240-0,TR240C-0	FCCAB200B0511 (FCCAB200B0442)	6/188 (6/188)	NTDLB208F0546 (NTDLB208F0391)	HL150T38L748P8 (HL150T40L748P8)	276	99/418
	FCCAB200B0637 (FCCAB200X0442)	6/188	(BL208TFX391)	(HL150T40L200P8) (HL152T45L200P7)		
			NTDLB204H0513	HL150T38L748P8	274	99/427
T240C-0 (Uprate)	FCCAB200B0511	6/188	NTDLB204H0513	HL150T36K771P8	274	99/440
G-TR240C-0	FCCAB200B0443 (CC18AS370)	6/110E (6/110C)	NTCLB204H0513	HL150T38L703P8	255	99/453

Dalian Locomotive Works

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
16-V240ZE	FCVAB220C0901	36/294F	NTDLB132H0617	HL155T45H775P5	345	99/660T
16-V240ZE	FCVAB220C1032	36/353F	NTDLB132H0617	HL155T45H775P5	345	99/660T
16-V240ZE	FCVAB220C1096	G40010212	NTDLB132H0617	HL155T45H775P5	345	99/660T

GE Transportation Systems

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
7FDL (General Electric)	FCVAB180B0887 (FCVAB180B0838) (FCVAB180B0769)	36/221C (36/165C) (36/150C)	NTDOB337H0594	H150T40L814P4	276	99/469
7FDL (Electronic System)	ECVAB220D0910	36/243F	INJECTORS NOT SUPPLIED BY WOODWARD			

Goodrich

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
251 Alco Power (215 bmep @ 1000/1150 rpm)	FCQAB160A0372	7/104B	NTDOB242H0393	H145T32K648 H145T35K648	276 276	99/463 99/412
251 Alco Power (230 bmep @ 720 rpm)	FCQAB160A0372	7/104B	NTDOB242H0393	H145T32K648	276	99/463
251 Alco Power (240/264 bmep @ 720 rpm)	FCQAB170A0571	7/104C	NTDOB242H0393	H145T32K648 H145T35K648	276 276	99/463 99/412
251 Alco Power (240 bmep)	FCQAB170A0571	7/104C	NTDOB242H0393	H145T35K648	276	99/412
251 Alco Power (240 bmep @ 1200 rpm)	FCQAB170A0571	7/104C	NTDOB242H0393	H145T37K648 H145T40K648	276 276	99/406 99/413
251 Alco Power (263+ bmep @ 1100 rpm)	FCQAB170A0753	7/139C	NTDOB242H0393	H145T37K648 H145T40K648	276 276	99/406 99/413
251 Alco Power (263+ bmep @ 900 rpm)	FCQAB180A0565	7/139D	NTDOB242H0393	H145T40K648	276	99/413
Alco 251B Bombardier (1050 HP 6 cyl & 2600 HP 16 cyl)	FCQAB150A0372	7/104A	NTDOB242H0393	H157T35K493 (H157T35K493)	276	99/340
Alco 251C Bombardier (2150 HP 12 cyl & 3050 HP 16 cyl)	FCQAB160A0372	7/104B	NTDOB242H0393	H157T35K493 (H157T34K493)	276	99/340
Alco 251D Bombardier (1350 HP 6 cyl)	FCQAB170A0571 (FCQAB170A0372)	7/104C (7/104C)	NTDOB242H0393 (H157T36K493)	H157T37K493	276	99/341
Alco 251E Bombardier (3300 HP 16 cyl or revised pistons)	FCQAB160A0372	7/104B	NTDOB242H0393	H15735K493 (H157T34K493)	276	99/340
			NTDOB242H0393	H1145T35K648 (H145T34K493)	276	99/412
(1700 HP 8 cyl & 2600 HP 12 cyl or revised pistons)	FCQAB170A0571 (FCQAB170A0372)	7/104C (7/104C)	NTDOB242H0393	H157T37K493 (H157T36K493)	276	99/341
		NTDOB242H0393	H145T37K648	276 (H145T36K648)	99/406	

Goodrich

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
Alco 251F Bombardier (3900 HP 16 cyl or revised pistons)	FCQAB170A0571 (FCQAB170A0372)	7/104C (7/104C)	NTDOB242H0393	H157T37K493 (H157T36K493)	276	99/341
			NTDOB242H0393	H145T37K648 (H145T36K648)	276	99/406
(3600 HP)	FCQAB170A0921	7/104C	NTDOB242H0393	H157T37K493	274	99/341
(1500 HP 6 cyl)	FCQAB180A0565	7/139D	NTDOB242H0393	H157T40K648 (H157T39K648)	276	99/390
(& 3000 HP 12 cyl & 4500 HP 18 cyl or revised pistons)			NTDOB242H0393	H145T40K648 (H145T39K648)	276	99/413
Alco 251 Bombardier			NTDOB242H0393	H160T32K904AP7 (H160T32K842P7)	276	99/505T
Alco 251 Plus (Uprated)	FCVAB180B0869 (FCVAB180B0772)	36/171C (36/171C)	NTDOB242H0393			
Alco 251 Bombardier			NTDOB242H0393	H157T32K493	276	99/496T

Hedemora Diesel

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
VA (185 mm bore)	FCOAB140C0574 (FCOAB140C0514)	3/412D (3/412D)	NTDOB250F0514 (NTDOB250F0396)	P2T4S561 (P2T4X561)	245	99/400
	(FCOAB140X0514)	(3/412D)	NTDOB200H0607	P2T4S561	245	99/480

IHC Holland

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
300HDK (Smit & Bolnes)	FXXAB240B0541	22/158D	NUDOB100B0525 (NUDOB100B0046)	HOU100A353P7	225	99/371
300HDK (Smit & Bolnes Uprated)	FXXAB260B0541	22/158E	NUDOB100B0525 (NUDOB100U0046)	HOU110A353P7	225	99/387
300HDK (Smit & Bolnes Uprated 428 rpm) (Reversing)	FXXAB280B0583 (FXXAB280X0583)	22/173 (22/173)	NUDOB100B0525	HOU120A353P7 HOU140A742P7 (HOU130A742P7)	225 225	99/403

MAN Diesel, Mirrlees Blackstone

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
TP, TP(T) (Stamford)	FCOAB180B0125 (A1AC180/11S125) (BPF1C180BS577)	3/298K (3/298K) (7022/58)	NUDOB200A4558 (BKB200U558B)	H150U35F353P6 (BDL150U557)	203	99/265
EH, ER, EV (Stamford)	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T33FP6 (BDL160T6087)	172	99/251
ES (Stamford)	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T33FP6 (BDL160T6087)	214	99/252
EB (Stamford)	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T36FP5	214	99/397
EBS, ERS, ESS, EVS (Stamford)	FCOAB160C6179 (BPF1C160S6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T40F464P3 (H160T40F576) (H160T38F464P3)	214	99/332
EVDF, ERDF (Stamford)	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T33FP6 (BDL160T6087)	172	99/251
ESDF (Stamford)	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T33FP6 (BDL160T6087)	214	99/252
ERDFS, ESDFS, EVDFS (Stamford)	FCOAB180B0555	3/416K	NTDLB150F0511 (NTDLB150X0459)	HL160T40F637P3 (HL160T40FX637P3)	214	99/399
	FCOAB160C6179 (BPF1C160BS6179)	7022/132 (7022/132)	NTDOB150G5132 (BKB150T5132)	H160T40F464P3 (H160T40F576)	214	99/332
ECSL, ESSL, ETS, ETSL, EWSL (Stamford)	FCOAB180B0555 (FCOAB180B0297) (A1AC180/11S297) (BPF1CC180CS6601)	3/416K (3/378K) (3/378K)	NTDOB150G5132 (BKB150T5132)	H160T45F464P4 (H160T42F464P4) (BDL160T6412)	214	99/396
EXSL, EYSL, EZSL (Stamford)	FCOAB180B0555	3/416K	NTDOB150G5132	H160T45F464P4	214	99/396
ESL MKII (Stamford)	FCCAB180B0694	6/441C	NTDOB380H0574 (BKB150TD60B)	H145T38H464P4 (H150T38H464P4)	303	99/490T
ESL MKII (Stamford, Heavy Fuel) (Constant Speed)	FCCAB200B0864 (FCCAB200B0787) (FCCAB200B0737)	6/513E (6/513E) (6/498E)	NTCLB370H0589 (BKB150TD60B)	HL145T38H785P4 (HL150T38H785P4) HL155T38K785P4	303 303	99/543T 99/542T
ESL MKII (Stamford, Heavy Fuel) (Low Load Retard)	FCCAB200B0813	6/531E	NTCLB370H0589	HL145T38H785P4 (HL150T38H785P4) HL155T38K785P4	303 303	99/543T 99/542T

MAN Diesel, Mirrlees Blackstone

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
EVSL MK II (Stamford, Constant Speed)	FCVAB200C0918 (FCVAB200B0801) (FCVAB200C0865)	36/278E (36/189E)	NTDLB310H0615	HL145T38H775P4	303	99/531T
				HL155T38K775P4 (HL145T38K775P4)	303	99/544T
EVSL MKII (Stamford, Low Load Retard)	FCVAB200C0918 (FCVAB200C0890) (FCVAB200C0853)	36/278E (36/201E)	NTDLB310H0615	HL145T38H775P4	303	99/531T
				HL155T38K775P4 (HL145T38K775P4)	303	99/544T
EVSL MKII (Stamford, Heavy Fuel)	FCVAB200C0918 (FCVAB200B0801) FCVAB200C0865	36/278E (36/189E)	NTCLB310H0616	HL145T38H785P4	303	99/537T
				HL155T38K785P4	303	99/545T
EVSL MKII (Stamford, Heavy Fuel) (Low Load Retard)	FCVAB200C0918 (FCVAB200C0890) (FCVAB200C0853)	36/278E (36/201E)	NTCLB310H0616	HL145T38H785P4	303	99/545T
				HL155T38K785P4	303	99/537T
EVSL MKII (Stamford, 19.8 bar)	FCVAB200C0918 (FCVAB200B0899)	36/278E	NTDLB310H0615	HL145T38H775P4	303	99/531T
				HL155T38K775P4	303	99/544T
MB190 (Stamford)	FCCAR180M0822 (FCCAR180M0781) (FCCAR180M0604)	6/525C (6/469C) (6/469C)	NTDLB370H0599 (NTDLB370H0564)	HL150T35L813P4 (HL155T38K775P5)	303	99/ 539T
J, JL (Stockport, below 675 rpm)	FCOAB160B0094 (A1BC160/11S94) (A1BC1/9S94)	3/298G (3/298G) (3/298G)	NTDLB200F0103 (BL199TF231)	HL150T30F200P4	201	
J, JL (Stockport, above 675 rpm)	FCOAB160B0094 (A1BC160/11S94) (A1BC160/9S94)	3/298G (3/298G)	NTDLB200F0103 (BL199TF231)	HL150T35F200P4	201	
J (Stockport, 800 to 1000 rpm)	FCOAB160B0094 (A1BC160/11S94) (A1BC160/9S94)	3/298G (3/298G)	NTDLB200F0103 (BL199TF231)	HL150T35F200P4	201	

MAN Diesel, Mirrlees Blackstone

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
J, JL (Stockport, Variable Speed, below 675 rpm)	FCOAB160B0231 (A1BC160/11S231)	3/245G (3/245G)	NTDLB200F0103 (BL199TF231)	HL150T30F200P4	201	
J, JL (Stockport, Variable Speed)	FCOAB160B0231 (A1BC160/11S231)	3/245G (3/245G)	NTDLB200F0103 (BL199TF231)	HL150T35F200P4	201	
JS, JLS (Stockport, Variable Speed, below 750 rpm)	FCOAB160B0094 (A1BC160/11S94) (A1BC160/9S94)	3/298G (3/298G)	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JS (Stockport, Variable Speed, 800 to 1000 rpm)	FCOAB160B0094 (A1BC160/11S94)	3/298G (3/298G)	NTDLB200F0103 (BL199TF231)	HL150T35H200P4	201	
JS, JLS (Stockport, Variable Speed, below 675 rpm)	FCOAB160B0231 (A1BC160/11S231)	3/245G (3/245G)	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JS (Stockport, Variable Speed)	FCOAB160B0231 (A1BC160/11S231) (A1BC180/9S94)	3/245G (3/245G) (3/298K)	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JSS, JLSS (Stockport, Variable Speed, below 750 rpm)	FCOAB180B0094 (A1BC180/11S94) (A1BC180/9S94)	3/298K (3/298K) (3/298K)	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JSS (Stockport, 800 to 1000 rpm)	FCOAB180B0094 (A1BC180/11S94)	3/298K (3/298K)	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JSS, JLSS (Stockport, Variable Speed)	FCOAB180B0231 (A1BC180/11S231)	3/245K	NTDLB200F0103 (BL199TF231)	HL150T42K200P4	201	
JVST 12 (Stockport, 1250 to 1365 BHP)	FCOAB160B0231 (A1BC160/11S231)	3/245G (3/245G)	NTDLB200F0331 (BL199TF331A)	HL150T35K200P4	201	
JVST 12 (Stockport, 1600 BHP)	FCOAB160B0231 (A1BC160/11S231)	3/245G (3/245G)	NTDLB200F0331 (BL199TF331A)	HL150T42K200P4	201	
JVSST 12 (Stockport, 2000 BHP)	FCOAB180B0276 (A1BC180/11S276)	3/245K (3/245K)	NTDLB200F0331 (BL199TF331A)	HL150T42K200P4	201	
TLS (Stockport, 500 to 650 rpm)	FCOAB160B0109 (A1AC160/11S109)	3/298K (3/298G)	NTDOB150F0103 (B150TF103)	H130T35P4 (BDL130T6050)	183	
TL (Stockport, Variable Speed)	(A1AZ140/2S253)	(15/153)	NTDOB150F0103 (B150TF103)	H130T30F372P3	183	99/312
TLS (Stockport, Variable Speed)	(A1BC160/11S240)		NTDOB150F0103 (B150TF103)	H130T35FP4	183	

MAN Diesel, Mirrlees Blackstone

(page 4)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
HF (Stockport)	FXOAB200B0096 (A1AX200/3S96) (A1AX200/1S96)	21/19D (21/19D) (21/19D)	NUDOB250B0046 (B250UB46C)	H140U45F353P4 (BDL140U583)		
K Series I (Stockport, Nat. Aspirated)	FXOAB200B0096 (A1AX200/3S96) (A1AX200/1S96)	21/19D (21/19D) (21/19D)	NUDOB350B0046 (B350UB46C)	H135U45G353P5	186	
K Series I (Stockport, Turbocharged, Heavy Fuel) (Enclosed Valve Gear)	FXOAB240B0357 (A1X240/3S357) (A1AX240/3S96) (A1AX240/1S96)	21/194F (21/194F) (21/19F) (21/19F)	NUDOB350B0439 (NUDOB350B0046) (B350UB46C) NUDOB400B0439 (NUDOB400B0046) (B400UB46C)	H135U47H353P5	186	
K Series I (Stockport, Turbocharged, Light Fuel)	FXOAB240B0495 (FXOAB240B0459) (FXOAB240B0357) (A1AX240/3S357) (A1AX240/3S96) (A1AX240/1S96)	21/259 (21/259) (21/194F) (21/194F) (21/19F) (21/19F)	NUDOB350B0481 (NUDOB350B0423) (NUDOB350B0046) (B350UB46C) NUDOB400B0481 (NUDOB400B0423) (NUDOB400B0046) (B400UB46C)	H135U47H496P5 (H135U47H353P5)	186	
K Series II (Stockport, Heavy Fuel) (Enclosed Valve Gear)	FXXAB260A0408 (XX26CS408) (XX26CS336)	22/158S (22/21S) (22/21S)	NUDOB350B0439 (NUDOB350B0046) (B350UB46C) NUDOB400B0439 (NUDOB400B0046) (B400UB46C)	HL135U50H445P5	152	
K Series II (Stockport, Light Fuel) (Enclosed Valve Gear)	FXXAB260A0422 (FXXAB260A0408) (XX26CS408) (XX26CS336)	22/138 (22/158S) (22/21S) (22/21S)	NUDOB350B0046 (B350UB46C) NUDOB400B0046 (B400UB46C)	H135U50H353P5 (HL135U50H445P5)	152	
K Series II (Stockport, Light Fuel, Sheathed Pipe) (Enclosed Valve Gear)	FXXAB260A0476	22/138	NUDOB350B0440 NUDOB400B0440	H135U50H353P5 HL135U64H429P6	152	

MAN Diesel, Mirrlees Blackstone

(page 5)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
K Major Mk.I (Stockport, Heavy Fuel, up to 220 bmep @ 500 rpm)	FXXAB300B0430 (FXXAB300X0430)	22/141 (22/141)	NUCLB425C0437 (NUCLB425C0403)	HL135U67H821P6 (HL135U67H634P6)	203	99/322U
	FXXAB280A0465 (FXXAB280A0296) (XX28CS296)	22/109 (22/109) (22/21T)	(B425UC380)	(HL135U66H634P6) (HL135U66H429P6)		
K Major Mk.I (Stockport, for Prolonged Light Fuel Running)	FXXAB300B0430	22/141	REFER TO ENGINE BUILDER			
K Major Mk.I (Stockport, Light Fuel, up to 220 bmep @ 500 rpm)	FXXAB300B0430 (FXXAB300X0430)	22/141 (22/141)	NUDLB425C0438 (NUDLB425C0404)	HL135U67H820P6 (HL135U67H430P6)	203	99/323U
	FXXAB280A0465 (FXXAB280A0296) (XX28CS296)	(22/109) (22/21T)	(B425UC395)	(HL135U66H430P6) (HL135U64H430P6)		
K Major Mk.I1 (Stockport, Light Fuel, up to 220 bmep @ 500 rpm)	FXXAB300B0430 (FXXAB300X0430)	22/141 (22/141)	NUDLB425C0438 (NUDLB425C0404)	HL135U67H820P6 (HL135U67H430P6)	203	99/323U
	FXXAB280A0465 (FXXAB280A0296) (XX28CS296)	22/109 (22/109) (22/21T)	(B425UC395)	(HL135U66H430P6) (HL135U64H430P6)		
K Major Mk.I (Stockport, Heavy Fuel, 250 bmep @ 500 rpm)	FXXAB300B0549	22/141	NUCLB425C0590 (NUCLB425C0485) (NUCLB425C0498)	HL135U67H821P6 (HL135U67H634P6) (HL135U66H634P6) (HL135U66H429P6) (HL135U64H429P6)	276	99/487U
K Major Mk.I (Stockport, Light Fuel, 250 bmep @ 500 rpm)	FXXAB300B0549	22/141	NUDLB425C0612 (NUDLB425C0486) (NUDLB425C0499)	HL135U67H820P6 (HL135U67H430P6) (HL135U66H430P6) (HL135U64H430P6) (HL135U66H429P6) (HL135U64H429P6)	276	99/488U
K Major Mk.I (Stockport, Heavy Fuel, 220 bmep @ 600 rpm)	FXXAB300B0534	22/150U	NUCLB425C0590 (NUCLB425C0485) (NUCLB425C0498)	HL135U67H821P6 (HL135U67H634P6) (HL135U66H634P6)	276	99/487U
K Major Mk.I (Stockport, Light Fuel, 220 bmep @ 600 rpm)	FXXAB300B0534	22/150U	NUDLB425C0612 (NUDLB425C0486) (NUDLB425C0499)	HL135U67H820P6 (HL135U67H430P6) (HL135U66H430P6) (HL135U64H430P6)	276	99/488U

MAN Diesel, Mirrlees Blackstone

(page 6)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
K Major Mk.I (Stockport, Dual Fuel, up to 200 bmep @ 500 rpm)	FXXAB280X0647 (FXXAB280B0605) (FXXAB280B0516) (FXXAB280X0470)	XP10160F (22/190F) (22/190F) (XP8410)	NUCLB425C0453 (NUCLB25X0453)	HL135U67H821P6 (HL135U67H634P6) (HL135U66H634P6) (HL135U66H429P6) (HL135U64H429P6)	203	99/407U
(Gas Valve Actuator)	FCCAB160B0592 (FCCAB160B0481)	6/423A (6/110A)				
K Major Mk.II (Stockport, Heavy Fuel, 250 bmep @ 600 rpm)	FDDAB280A0522	34/33F	NUCLB425C0590 (NUCLB425C0485) (NUCLB425C0498)	HL135U67H821P6 (HL135U67H634P6) (HL135U66H634P6) (HL135U66H429P6)	276	99/487U
				HL135U67H821P6P	276	99/525U
K Major Mk.II (Stockport, Light Fuel, 250 bmep @ 600 rpm)	FDDAB280A0522	34/33F	NUDLB425C0612 (NUDLB425C0486)	HL135U67H820P6 (HL135U67H450P6) (HL135U66H430P6)	276	99/488U
				HL135U67H820P6P	276	99/528U
K Major Mk.II (Stockport, Dual Fuel, 250 bmep @ 600 rpm)	FDDAB280A0807	34/56F	NUCLB425C0590 (NUCLB425C0485)	HL135U68K787P6 HL135U68K787P6P	203 203	99/460 99/526U
(Gas Valve Actuator)	FCCAB160B0592	6/423A				
K Major Mk. III (Stockport, Heavy Fuel, for Prolonged Light Fuel Running)	FDDAB300A0845 (FDDAB280A0644)	34/73G (34/55F)	NUCLB425C0590	HL135U68K787P6 HL135U68K787P6P	276 276	99/460 99/527U
			NUDLB425C0630	HL135U68K858P6	276	99/508U
			NUCLB425C0590	HL145U68K846P6	276	99/559U
			NUDLB425C0612	HL145U68K858P6	276	99/661U
K Major Mk. III (Stockport, Light Fuel)	FDDAB300A0845 (FDDAB280A0644)	34/73G (34/55F)	NUDLB425C0612	HL145U68K858P6 HL135U68K858P6P (HL135U68K858P6)	276 276	99/661U 99/529U
	FDDAB300A0845	34/73G	NUCLB425C0590	HL145U68K858P6	276	99/675U
K Major Mk. III (Stockport, Dual Fuel)	FDDAB280A0721	34/56F	NUCLB425C0590	HL135U67H821P6P	203	99/524U
MB275 (17 bar) (Stockport, Light Fuel)	FWVAR200B0699 (FWVAR200A0699)	23/175C (23/175C)	NTDLB550H0576 NTDLB552H0623	HL155T46K879P4 HL155T46K879P4 (HL155T46K775P4)	345 379	99/456 99/499T

MAN Diesel, Mirrlees Blackstone

(page 7)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
MB275 (17 bar) (Stockport, Heavy Fuel)	FWVAR200B0699 (FWVAR200A0699)	23/175C (23/175C)	NTCLB550H0572 NTCLB552H0622	HL155T46K880P4 HL155T46K880P4 (HL155T46K785P4)	345 379	99/457 99/498T
MB275 (19 bar) (Stockport, Light Fuel)	FWVAR240A0844 FWVAR240B0866 FWVAR240C0872 (FWVAR240A0872)	23/199E 23/199E 23/224E	NTDLB552H0629 NTDLB552H0629 NTDLB552H0629	HL155T46K879P4 HL155T46K879P4 HL155T46K879P4	379 379 379	99/504T 99/504T 99/504T
MB275 (19 bar) (Stockport, Heavy Fuel)	FWVAR240A0844 FWVAR240B0866 (FWVAR240A0872) FWVAR240C0872 (FWVAR240A0872)	23/199E 23/199E (23/224E) 23/224E (23/224E)	NTCLB552H0610 NTCLB552H0610 NTCLB552H0610	HL155T46K880P4 HL155T46K880P4 HL155T46K880P4	379 379 379	99/511T 99/511T 99/511T
MB430 (Stockport, Light Fuel)	FEEAB340A0855 FEEAB340A0905	33/4C 33/48C	NVDOA620C0637	HL135V76K910P6 (HL135V72K910P6)	414	99/530V
MB430 (Stockport, Heavy Fuel)	FEEAB340A0855 FEEAB340A0905	33/4C 33/48C	NVCOA620C0580	HL145V72K905P6 (HL135V76K905P6) (HL135V72K900P6)	414	99/541V
ALSS (Stockport, below 250 rpm)	FEOAB300B0249 (E30BS249) (E30AS249)	32/92D (32/36D) (32/36D)	NVDOB525C0330 (B525VB330)	HL150V60H401P6	203	
ALSS (Stockport, 250 to 300 rpm)	FEOAB300B0249 (E30BS249) (E30AS249)	32/92D (32/36D) (32/36D)	NVDOB525C0330 (B525VB330)	HL140V57L401P6	203	
ALSS (Stockport, Uprated)	FEOAB340B0249 (E34BS249) (E34AS249)	32/92F (32/36F) (32/36F)	NVDOB525C0330 (B525VB330)	HL145V63L401P6	203	
AVSS (Stockport)	FEOAB340B0340 (E34BS340) (E34AS340)	32/92F (32/36F) (32/36F)	NVCOB525C0358 (B525VB358)	HL145V67K562P6	203	
R (Stockport, 600 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (BL274TF247)	HL150T35E200P6	172	
R (Stockport, 750 rpm)	FCOAB160B0262 (A1AC160/11S262)		NTDLB275F0247 (BL274TF247)	HL150T40E200P4	207	

MAN Diesel, Mirrlees Blackstone

(page 8)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
RP (Stockport, 600 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (B175TF247)	H150T35EP6	172	
RP (Stockport, 750 rpm)	FCOAB160B0125 (A1AC160/11S125)	3/298G (3/298G) (3/298G)	NTDOB175F0247 (B175TF247)	H150T40EP4	207	
RS (Stockport, 600 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (BL274TF247)	HL150T35E200P6	207	
RS (Stockport, 750 rpm)	FCOAB180B0262 (A1AC180/11S262)	3/298K (3/298K)	NTDLB275F0247 (BL274TF247)	HL150T40E200P4	207	
RSS (Stockport, 600 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (BL274TF247)	HL150T35E200P6	207	
RSCP (Stockport, 600 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (BL274TF247)	HL150T35E200P6	207	
RSCP (Stockport, 750 rpm)	FCOAB160B0125 (A1AC160/11S125) (A1AC160/9S125)	3/298G (3/298G) (3/298G)	NTDLB275F0247 (BL274TF247)	HL150T40E200P4	207	
F (Stockport, 300 to 600 rpm)	FXOAB180B0182 (A1BX180/3S182) (A1BX180/1S182)	21/19C (21/19C) (21/19C)	NTDLB169F0325 (BL168TF325)	HL130T38K200P4	207	
FP (Stockport, 500 to 600 rpm)	FXOAB180B0182 (A1BX180/3S182) (A1BX180/1S182)	21/19C (21/19C) (21/19C)	NTDLB169F0325 (BL168TF325)	HL130T38K200P4	207	
FS (Stockport, 300 to 600 rpm)	FXOAB180B0182 (A1BX180/3S182) (A1BX180/1S182)	21/19C (21/19C) (21/19C)	NTDLB169F0325 (BL168TF325)	HL130T38K200P4	207	
FSS (Stockport, 300 to 600 rpm)	FXOAB200B0182 (A1BX200/3S182) (A1BX200/1S182)	21/19D (21/19D) (21/19D)	NTDLB169F0325 (BL168TF325)	HL130T42K200P4	207	
FSCP (Stockport)	FXOAB200B0182 (A1BX200/3S182) (A1BX200/1S182)	21/19D (21/19D) (21/19D)	NTDLB169F0325 (BL168TF325)	HL130T42K200P4	207	
FSCP (Stockport, Town Gas)	FXOAB200B0182 (A1BX200/3S182) (A1BX180/3S182)	21/19D (21/19D) (21/19D)	NTDOB169F0325 (BL168TF325)	HL130T38K200P4	207	

MAN Diesel, Mirrlees Blackstone

(page 9)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
B2AUDM (Stockport, below 300 rpm)	(A1AD220/8S145)		(B350U265)	H140U40H353P4	228	
B2AUDM (Stockport, 333 rpm)	FDOAB220A0206 (A1AS220/8S206)	4/70E (4/70E)	(B350UB265)	H140U45H353P5	228	
B4A (Stockport, below 300 rpm)	(A1AD180/8S145)	(4/70C)	(B350UB265)	H140U40H353P4	228	
B4A (Stockport, 333 rpm)	FDOAB220A0206 (A1AD220/8S206)	4/70E (4/70E)	(B350UB265)	H140U45H353P5	228	
B4AUP (Stockport, 333 rpm)	FDOAB220A0206 (A1AD220/8S206)	4/70E (4/70E)	(B400UB316)	H140U45H353P4	228	
B4A (Stockport, below 300 rpm)	(A1AD180/8S145)	(4/70C)	(B350UB265)	H140U40H353P4	228	
B4A (Stockport, 333 rpm)	FDOAB220A0206 (A1AD220/8S206)	4/70E (4/70E)	(B350UB265)	H140U45H353P5	228	
B4AU (Stockport, below 300 rpm)	FDOAB220A0206 (A1AD220/8S206)	4/70E (4/70E)	(B350UB265)	HL140U45LP4	228	
B4AU (Stockport, 333 rpm)	FDOAB220A0206 (A1AD220/8S206)	4/70E (4/70E)	(B350UB265)	H140U45H353P4	228	
B4AUP (Stockport, below 300 rpm)	(A1AD220/8S145)		(B400UB316)	HL140U40LP3	228	
GS34 (Stockport)	(19/16A etc.)		(B286UB312) (B175TF311)	HLU50L380P7 HOT70A357	203 203	

MAN Diesel, Paxman

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
YH (above 1251 rpm)	FCOAB140C6536 (BPF1C140BS6536)	7022/76 (7022/76)	NTDOB150G5027 (BKB150T5027B)	H160T40F464P4 (BDL160TY6269)	223	
YH (up to 1250 rpm)	FCOAB140C6536	7022/76 (7022/76)	NTDOB150H0531	H160T36E696P4	223	99/419
YHA	FCOAB140C6603 (BPF1C140CS6603)	7022/76 (7022/76)	NTDOB150G5027 (BKB150T5027B)	H160T40F464P4 (BDL160TY6269)	223	
YHX	FCOAB140C6535 (BPF1C140BS6535)	7022/76 (7022/76)	NTDOB150G5027 (BKB150T5027B)	H160T40F464P4 (BDL160TY6269)	223	
YHAC, YHAX	FCOAB140C6603 (BPF1C140BS6603)	7022/76 (7022/76)	NTDOB150H0531 (NTDOB150G5027) (BKB150T5027B)	H160T40E696P4 (H160T40E464P4) (BDL160T6212)	223	99/414
YL	FCCAB160B0432	6/110A	NTDOB178G0383 (B178TG383)	H150T50E534 (BDL150T6154)	203	
	FCCAB160B0348 (CC16AS348) (BPF1CC160CS6533)	6/110A (6/110A) (7022/120)	NTDOB178G0383 (B178TG383)	H150T50E534 (BDL150T6154)	241	
YLX	FCCAB160B0432 FCCAB160B0348 (CC16AS348) (BPF1CC180CS6533)	6/110A 6/110A (6/110A) (7022/120A)				
YLC	FCCAB200B0433	6/110E	NTDOB170G0383	H150T55E534 (BDL150T6425)	241	99/267
	FCCAB200B0346 (CC20AS346) (BPF1CC200CS6534)	6/110E (6/110E) (7022/120B)				
YJC (Aluminum Cylinder Heads)			NTDOB175G0402 (BKB175T5215BH) (BKB175T5193BL)	H150T38F464P4 (BDL160TY6470)	221	99/212
				H160T40G464P4	221	99/213
YJC (Cast Iron Cylinder Heads)			NTDOB175H0464 (NTDOB175X0414)	H160T36H696P4 (H160T36H464P4)	190	99/319
			NTDOB175G0402	H160T36H464P4 (H160T36H464P4)	221	99/219

MAN Diesel, Paxman

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
YJC (Sheathed H.P. Pipe)			NTDOB175H0482 (NTDOB175H0454)	H160T36H696P4 (H160T36H464P4)	190	99/343
YJC (Cast Iron Cylinder Heads up to 1250 rpm)			NTDOB175H0464	H160T32H696P4 (H160T32H464P4)	190	99/357
YJC (Sheathed H.P. Pipe up to 1250 rpm)			NTDOB175H0482	H160T32H696P4 (H160T32H464P4)	190	99/358
			NTDOB175H0464	H150T33F696P4 (H150T33F464P4)	190	99/363
YJ (MOD) (Naturally Aspirated)			NTDOB175H0482	H160T30H696P4	190	99/461
ZHX			NTDOB150G5027 (BKB150T5027B)	H160T42EP4 (BDL160T6212)	221	99/224
RP200 (MOD) (250 bmep @ 1350 rpm)	FCCAR180M0867 (FCCAR180M0765)	6/510C (6/510C)	NTDLB194H0560	HL150T36K768P4	300	99/471
RP200 (MOD) (194/252 bmep @ 1200 rpm)	FCCAR180M0603	6/243C	NTDLB194H0560	HL150T34L642P4	300	99/484T
RPA200 (MOD) (216/254 bmep Gen Set @ 1200 rpm)	FCCAR180M0603	6/243C	NTDLB194H0462	HL150T34L642P4	276	99/402
RP200 (MOD) (247 bmep @ 1500 rpm)	FCCAR180M0765 (FCCAR180M0603)	6/510C (6/243C)	NTDLB194H0560	HL150T34L642P4	300	99/484T
RP200 (Rail Traction) (247 bmep @ 1500 rpm)	FCCAR180M0765 (FCCAR180M0603)	6/510C (6/243C)	NTDLB194H0560 (NTDLB194H0462)	HL150T35L759P4	300	99/444
RP200 Marine (309 bmep @ 1600 rpm)	FCCAR180M0603	6/243C	NTDLB194H0560	HL150T35L759P4	300	99/444
RP200 Marine (250 bmep @ 1600 rpm)	FCCAR180M0809	6/517C	NTDLB194H0560	HL150T35L759P4	300	99/444
RP200 Marine (309 bmep @ 1600 rpm)	FCCAR180M0819	6/522C	NTDLB194H0560	HL150T35L759P4 (HL150T36L642P4)	300	99/444
RP200 Marine (309 bmep @ 1600 rpm)	FCCAR180M0850 (FCCAR180M0603)	6/534C (6/243C)	NTDLB194H0560	HL150T35L759P4	300	99/444
RP200 Marine (309 bmep @ 1600 rpm)	FCCAR180M0850	6/534C	NTDLB194H0560	HL150T30L642P4 (HL150T32L642P4)	276	99/540T
RP200 Marine (Mk1 SRMH)	FCCAR180M0850	6/534C	NTDLB194H0560	HL150T31L923P4	276	99/667T
RP200 (275 bmep @ 1500 rpm)	FCCAR180M0809	6/517C	NTDLB194H0360	HL150T36K768P4	300	99/471

MAN Diesel, Paxman

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
RP200 (309 bmep @1600 rpm)	FCCAR180M0603 FCCAR180M0809	6/243C 6/517C	NTDLB194H0560 NTDLB194H0560	HL150T35L759P4 HL150T35L759P4	300 300	99/444 99/444
VEGA (Pump Injector)	KCCOT120A0004	20/200CA		H155T30H837P4	238	97/2T
VP185 (HST) (Pump Injector)	KCVOT150A0023	20/281		H150T36K932P4	462	97/14T
VP185 (Pump Injector)	KCVOT150A0023	20/281		H150T40K932P4	462	97/15T

MAN Diesel, Ruston

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range			
CSV, CSRK (900 rpm)	FCCAB200B0339 (CC20AS339) (BPF1CC200CS6570) (BPF1CC200CS6436)	6/110E (6/110E) (7022/120B) (7022/120B)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T6177)	207	99/261			
				H140T43F529 (BDL140T6332)	207	99/362			
SV, SRK, SVA, & SRKA (900 rpm)	FCCAB180B0339 (CC18AS339) (BPF1CC180CS6570) (BPF1C160BS6416) (BPF1C160BS6117)	6/110C (6/110C) (7022/120A) (7022/44) (7022/44)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T6177)	207	99/261			
				or H140T43F529 (BDL140T6332)	207	99/362			
				NTDOB200G4658 (BKB200T5011B)	H140T35HP4 (BDL140T6043)	172	99/257		
CSV T (850 rpm)	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110E (6/110E) (7022/120B)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263			
CSV, CSRK (below 900 rpm)	FCCAB180B0339 (CC18AS339) (BPF1CC180CS6570) (BPF1CC180CS6436)	6/110C (6/110C) (7022/120A) (7022/120A)	NTDOB200G5011 (BKB200T5011B)	H140T43F529 (BDL140T6332)	207	99/362			
				H140T35H528 (BDL140T6177)	207	99/261			
				FCCAB160B0339 (CC16AS339) (BPF1CC160CS6570) (BPF1CC160CS6436) (BPF1CC160BS6416) (BPF1CC160BS6117)	6/110A (6/110A) (7022/120) (7022/120) (7022/44) (7022/44)	NTDOB200G4658 (BKB200T658B)	H140T35HP4 (BDL140T6043)	172	99/257
SV, SRK, SVA, SRKA, SVM, SRKM SVAM, SRKAM, CSVM, CSRKM (below 900 rpm)	FCCAB180B0339 (CC18AS339) (BPF1CC160CS6570) (BPF1CC180CS6436)	6/110C (6/110C) (7022/120A) (7022/120A)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263			
				FCCAB160B0339 (CC16AS339) (BPF1CC160CS6570)	6/110A (6/110A) (7022/120)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T6177)	207	99/261
				(BPF1CC160CS6436) (BPF1C160BS6416) (BPF1C160BS6117)	(7022/120) (7022/44) (7022/44)	NTDOB200G4658 (BKB200T658B)	H140T35HP4 (BDL140T6064)	172	99/257

MAN Diesel, Ruston

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
SVT, SRKT	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110E (6/110E) (7022/120B)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263
	FCCAB160B0339 (CC16AS339) (BPF1CC160CS6570) (BPF1CC160CS6436)	6/110A (6/110A) (7022/120) (7022/120)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T6177)	207	99/261
	FCOAB160C6589 (BPF1C160BS6589) (BPF1C160CS6416) (BPF1C160BS6117)	3/412G (7022/44) (7022/44) (7022/44)	NTDOB200G4658 (BKB200T658B)	H140T35HP4 (BDL140T6043)	172	99/257
V, RK	FCOAB140C6590 (BPF1C140BS6590) (BPF1C140BS6117)	7022/44C (7022/44C) (7022/42)	NTDOB200G5011 (BKB200T5011B) (BKB200T658B) (BKB200T620B)	H150T35F528 (BDL150T6210)	207	
				H150T29HP4 (BDL150T622)	172	
VM, RKM	FCOAB140C6590 (BPF1C140S6590)	7022/44C (7022/44C)	NTDOB200G5228 (BKB200T5228B) (BKB200T5131B)	H150T35F528 (BDL150T6210)	207	
K	FCOAB140B0055 (A1AC140/11S55) (BPF1C140BS671) (A1AC120/11S55)	3/298E (3/298E)	NTDOB200G5228 (BKB200T5228B) (BKB200T5131B) (B200TF115)	H150T35F528 (BDL150T6210)	207	
				H150T29HP4 (BDL150T622)	172	
SK	FCOAB160B0055 (A1AC160/11S55) (BPF1C160BS671) (BPF1C160BS671)	3/298G (3/298G)	(B200TF115)	H150T29HP4 (BDL150T622)	172	
				FCOAB140B0055 (A1AC140/11S55) (BPF1C140BS671)	3/298E (3/298E)	
SVD, SRKD	FCCAB180B0370 (CC18AS370) (BPF1CC180CS6594)	6/110C (6/110C) (7022/120A)	NTDOB200G5011 (BKB200T5011B)	H140T43F529 (BDL140T6332)	207	99/362
				H140T35H528 (BDL140T6177)	207	99/261

MAN Diesel, Ruston

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range	
RKD	FCOAB120C6369 (BPF1C120BS6369)	7022/44B (7022/44B)	NTDLB200F0336 (BL199TF336) (BKB200T620B)	HL150T35H200P4	172		
				H150T35FP4 (BDL150T6046)	172		
RL Mk. II (Specification varies with engine application)	FDOAB. . .	BPF1D . . .	NUDOB275A4692 (BKB275U692B)	H150U45L607 (BDL150U6242)	207		
				H150U45H606 (BDL150U6243B)	207		
				NUCLB275A4693 (BKBL275U693B)	HL150U43H587 (BDLL150U6338)	207	
				HL150U45L611 (BDLL150U6339B)	207		
				HL150U50H610 (BDLL150U6416)	207		
CSV, CSRK, SVA, SRKA, CSVD, & CSRKD (above 750 rpm)	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110E (6/110E) (7022/120B)	NTDOB200G5011 (BKB200T5011B)	H140T43F529 (BDL140T6332)	207	99/362	
				FCCAB200B0275 (CC20AS275) (BPF1CC200C6594)	6/110E (6/110E) (7022/120B)		
CSVT, CSRKT (above 750 rpm)	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110A (6/110E) (7022/120B)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263	
				FCCAB200B0339 (CCS20AS339) (BPF1CC200CS6570)	6/110E (6/110E) (7022/120B)		
CSVM, CSRKM (above 750 rpm)	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110E (6/110E) (7022/120B)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263	
				FCCAB200B0275 (CC20AS275) (BPF1CC200CS6594)	6/110E (6/110E) (7022/120B)		

MAN Diesel, Ruston

(page 4)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
SVAM, SRKAM, SVT, SRKT (above 750 rpm)	FCCAB200B0335 (CC20AS335) (BPF1CC200CS6622)	6/110E (6/110E) (7022/120B)	NTDOB200G5228 (BKB200T5228B) (BKB200T5131B)	H140T35H528 (BDL140T6177)	207	99/264
	FCCAB160B0339 (CC16AS339) (BPF1CC160CS6570) (BPF1C160BS6589)	6/110A (6/110A) (7022/120) (7022/44)		H140T43F529 (BDL140T6332)	207	99/263
			NTDOB200G5123 (BKB200T5213B)	H140T43F529 (BDL140T6332)	207	99/305
CSV, CSRK (below 750 rpm)	FCCAB180B0335 (CC18AS335) (BPF1CC1806622)	6/110C (6/110C) (7022/120A)	NTDOB200G5011 (BKB200T5011B)	H140T43F529 (BDL140T6332)	207	99/362
	FCCAB180B0370 (CC18AS370) (BPF1CC180CS6594)	6/110C (6/110C) (7022/120A)				
SV, SRK, SVA, & SRKA (below 750 rpm)	FCCAB160B0339 (CC16AS339) (BPF1CC160CS6570)	6/110A (6/110A) (7022/120)	NTDOB200G5011 (BKB200T011B)	H140T35H528 (BDL140T6177)	207	99/261
	FCCAB160B0275 (CC16AS275) (BPF1CC160CS6594)	6/110A (6/110A) (7022/120)		H140T43F529 (BDL140T6332)	207	99/362
CSVM, CSRKM (below 750 rpm)	FCCAB180B0335 (CC18AS335) (BPF1CC180CS6622)	6/110C (6/110C) (7022/120A)	NTDOB200G5228 (BKB200T5228B)	H140T43F529 (BDL140T6332)	207	99/263
	FCCAB180B0370 (CC18AS370) (BPF1CC180C6594)	6/110C (6/110C) (7022/120A)				
CSVD, CSRKD (below 750 rpm)	FCCAB180B0335 (CC18AS335) (BPF1CC180CS6622)	6/110C (6/110C) (7022/120A)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T617732)	207	99/261
	FCCAB180B0370 (CC18AS370) (BPF1CC180CS6594) (BPF1CC180CS6590)	6/110C (6/110C) (7022/120A)		H140T43F529 (BDL140T6332)	207	99/362
				H140T25L530P3 (BDL140T6380)		

MAN Diesel, Ruston

(page 5)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
SVM, SRKM, SVAM, SRKAM (below 750 rpm)	FCCAB180B0335 (CC18AS335) (BPF1CC180CS66622)	6/110C (6/110C) (7022/120A)	NTDOB200G522 (BKB200T5228B) (BKB200T5131B)	H140T35H528 (BDL140T6177)	207	99/264
	FCCAB180B0339 (CC18AS339) (BPF1CC180CS6570)	6/110C (6/110C) (7022/120A)		H140T43F529 (BDL140T6332)	207	99/263
	FCCAB180B0370 (CC18AS370) (BPF180CS6594)	6/110C (6/110C) (7022/120A)				
V, RK	FCOAB160C6590 (BPF1C160BS6590)	7022/44E (7022/44E)	NTDOB200G5011 (BKB200T5011B)	H150T35F528 (BDL150T6210)	207	
			NTDLB200H0608 (Bar Injector)	HL145T45H775P5	234	99/481
VM, RKM	FCOAB140C6590 (BPF1C160BS6590)	7022/44C (7022/44E)	NTDOB200G5228 (BKB200T5228B)	H140T35H528 (BDL140T6177)	207	99/264
	FCOAB140C6590 (BPF1C140BS6590)	7022/44C (7022/44C)		H140T43F529 (BDL140T6332)	207	99/263
SRKD	FCOAB140C6590 (BPF1C140BS6590)	7022/44C (7022/44C)	NTDOB200G5011 (BKB200T5011B)	H140T35H528 (BDL140T6177)	207	99/261
VULCAN	FEOAB300B0328 (E30BX328)	32/92D (32/36D)	NUCLA400C0379 (B400UCX379)	HL150U75H457P5 (HL150U75HX457P7)	241	
VCBX			NTDOB150G5129 (BKB150T5129B)	H150T25L530P3 (BDL150T6380)	177	99/260
				H140T25L530P3 (BDL140T6380)		
RK Mk.III	FCCAB200B0388 (CC20AX338A)	6/110E	NTDOB200G0495 (NTDOB200G0399)	H140T43F529	221	99/359
RK Mk.III (Sheathed H.P. Pipe)	FCCAB200B0388	6/110E	NTDOB200G0496 (NTDOB200X0471)	H140T43F529	221	99/360
RK Mk.III (Dual Fuel 1999 Engines)	FCCAB200B0677	6/451E	NTDOB200G0495 (NTDOB200G0495)	H140T43F529	221	99/359
	FCCAB200B0677	6/451E	NTDLB200H0608 (NTDOB200G0495)	HL145T40H775P4	234	99/503T
RK Mk.III (Heavy Fuel)	FCCAB200B0388 (FCCAB200B0691)	6/110E (6/110E)	NTDOB200G0495	H140T43F529	221	99/359

MAN Diesel, Ruston

(page 6)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
RKC-L	FCVAB200B0729	36/103E	NTDLB200H0566 (Imperial leak off)	HL140T43F775P4	234	99/448
			NTDLB200H0604 (Metric leak off)	HL140T43F775P4	234	99/475
			NTDLB200H0608 (Bar Injector)	HL140T43F775P4	234	99/482
RKC	FCVAB220B0683 (FCVAB220X0618)	36/78F (36/24F)	NTDLB200H0566 (Imperial leak off)	HL145T45H775P5	234	99/433
			NTDLB200H0604 (Metric leak off)	HL145T45H775P5	234	99/473
			NTDLB200H0608 (Bar Injector)	HL145T45H775P5	234	99/481
RKC (750 rpm Low rating)	FCVAB220B0683	36/78F	NTDLB200H0608 (Bar Injector)	HL145T40H775P4	234	99/503T
RK270 (Low Rating) (Standard Engine) (Fast Ferry)	FCVAB220C0862 (FCVAB220B0852) (FCVAB220B0728)	36/215F (36/78F) (36/78F)	NTDLB200H0566 (Imperial leak off)	HL145T45H775P5	234	99/433
			NTDLB200H0604 (Metric leak off)	HL145T45H775P5	234	99/473
			NTDLB200H0608 (Bar Injector)	HL145T45H775P5	234	99/481
			NTDLB200H0608 (Bar Injector)	HL145T45H775P5 (HL145T45H775P5)	234	99/549T
RK270 Mk.I (Special Applications)	FCVAB220C0862 (FCVAB220B0852)	36/215F (36/78F)	NTDLB200H0608 (Bar Injector)	HL145T43H775P4	234	99/547T
RK270 Mk.I (High Rating) (Standard Engine) (Flow Control Fast Ferry)	FCVAB220C0862 (FCVAB220B0852) FCVAB220B0728	36/215F (36/78F) 36/78F	NTDLB200H0566 (Imperial leak off)	HL145T50H863P5 (HL145T50H775P5)	234	99/459
			NTDLB200H0604 (Metric leak off)	HL145T50H863P5 (HL145T50H775P5)	234	99/477
			NTDLB200H0608 (Bar Injector)	HL145T50H863P5 (HL145T50H775P5)	276	99/483
			NTDLB200H0608 (Bar Injector)	HL145T43H879P4 (HL145T50H863P5)	276	99/550T
RK270 Mk.I (HFO)	FCVAB220C0862 (FCVAB220B0852)	36/215F	NTCLB200H0635	HL145T48H785P4 (HL145T50H775P5)	234	99/558
RK270 Mk.II (LFO)	FCWAB240A0894	37/103G	NTDLB290H0646	HL145T50H897P4	380	99/555T

MAN Diesel, Ruston

(page 7)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
RK270 Mk.II (HFO)	FCWAB240A0894	37/103G	NTCLB290A0645	HL145T48H894P6	380	99/557
4AP230	FCCAB200B0678	6/441E	NTDLB200H0567	HL145T35H775P4	234	99/435
6AP230	FCVAB220B0684 (FCVAB220X0638)	36/74F (XP10127F)	NTDLB200H0567 (Imperial leak off)	HL145T45H775P5	234	99/434
			NTDLB200H0603 (Metric leak off)	HL145T45H775P5	234	99/474
AP230 (750 rpm)	FCVAB220B0684	36/74F	NTDLB200H0567 (Imperial leak off)	HL145T50H868P5 (HL145T50H775P5)	234	99/449
			NTDLB200H0603 (Metric leak off)	HL145T50H863P5 (HL145T50H775P5)	234	99/476
AP230 (750 rpm, Low Rating)	FCVAB220B0684	36/74F	NTDLB200H0603 (Metric Leak Off)	HL145T40H775P4	234	99/515T
AT350	FWVAB260A0697	23/191F	NUCLB470C0575	HL150U57H787P5	276	99/472

MOD (Navy)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
ASR1	81-101-35	3/256G	NTDLB200F0306 (BL199TF306A)	HL140T38F260P4	276	99/249
	160C0491	6/346A	(BL199TF306)			

Perkins Engines

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
DV8 Mk I (Shrewsbury, Rolls-Royce)			NTDOB132G5169 (BKB132T5169)	H150T45DP3 (BDL150TX5354)	177	99/259
			NTDOB132G0408 (BKB132TX607)	H150T45DP3 (BDL150TX5343)	203	99/269
DV8 Mk I (750 BHP, Shrewsbury, Rolls-Royce)			NTDOB132G0408	H150T47D518P3	203	99/289
DV8 Mk IA (750 BHP, Shrewsbury, Rolls-Royce)			NTDOB125G0451	H150T47D518P3	203	99/330
DV8 Mk IA (Special, Shrewsbury, Rolls-Royce)			NTDOB125H0451	H150T45DP3	203	99/331
DV8 600G (Shrewsbury, Rolls-Royce)			NTDOB125H0614	H150T55D837P3	230	99/494T
6SET, 6SETCR1, 6SETCR2, 6SETCA1 (4006 TG, 4006 TWG1, 4006 TWG2, 4006 TAG1, Stafford, Pump Injector)	KCCOT120A0012 (KCCOT120A0004) (KCCOT120A0006)	20/200CD		H155T30H837P4	235	97/4T
		20/200CC				97/1T
6SETCA2, 6SETCW1, 6SETCW2 (4006 TAG2, 4006 TEG1, 4006 TEG2, Stafford, Pump Injector)	KCCOT120A0004	20/200CD		H155T30H837P4	235	97/2T
6SET (1000 rpm, 4006 TG, Stafford, Pump Injector)	KCCOT120A0020 (KCCOT120X0020)	20/200CE		H155T26H837P4	235	97/9T
SEAKING 6, 8 & 12 (Pump Injector)	KCCOT120A0012	20/200CD		H155T30H837P4	235	97/4T
SEAKING 16 (Pump Injector, including 12 Clylinder)	KCCOT120A0012	20/200CD		H155T28H925P4	235	97/10T
8SETCA1, 8SETCA2, 8SETCR2, 12SETCA1, 12SETCA2, 16SETCA1, 16SETCA2 (4008 TAG1, 4008 TAG2, 4008 TWG2, 4012 TAG1, 4012 TAG2, 4016 TAG1, 4016 TAG2)	KCCOT120A0020	20/200CE		H155T26H237P4	235	97/9T

Perkins Engines

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
6SET, 6SETCA1, 6SETCA3, 6SETCR, 6SETCR3, 8SETCA, 8SETCA1, 8SETCA2, 8SETCR2, 12SETCA (Original), 12SETCA1, 12SETCA2, 12SETCR2, 12SETCR (Original), 12SETCW, 12SETCW2, 16SETCA, 16SETCA1, 16SETCA2, 16SETCR, 16SETCR2, 16SETCW1, 16SETCW2, 8SETCA2 (4006 TG, 4006 TAG1, 4006 TAG3, 4006 TWG, 4006 TWG3, 4008 TAG, 4008 TAG1*, 4008 TAG2*, 4008 TWG2*, 4012 TAG, 4012 TAG1*, 4012 TAG2*, 4012 TWG2, 4012 TWG, 4012 TEG, 4012 TEG2, 4016 TAG, 4016 TAG1*, 4016 TAG2*, 4016 TWG, 4016 TWG2, 4016 TEG1, 4016 TEG2, 4008 TAG4)	KCCOT120A0020	20/200CE		H155T30H837P4	235	97/20T

NOTE 1: 6, 8 and 12 Cylinder High Speed Variants (1800 rpm) use Type 97/25T (856/20) Unit Injectors. Refer to Engine Manufacturers Data Plate.

NOTE 2: Unit injector type 97/19T is used in place of 97/12T for engine applications requiring T.A.LUFT emmissions.

NOTE 3: *These Engines if rated at 1000/12 000 rpm should be fitted with 97/0T Unit Injectors. other ratings to be fitted with 97/12T's.

Rolls-Royce Power Engineering

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
5A (NEI-APE Bellis)				H145T30F180P4 (BDL145T540)		
5ALS (NEI-APE Bellis)	(A1AC110/9)		NTDOB150F0103 (B150TF103)	H140T30FP3		
11AL (NEI-APE Bellis)	(BPF1C180B00)	(7022/58)	NUDOB250B0046 (BKB250U43B)	H140U37G353P6 (BDL140U625)		
11ALS (NEI-APE Bellis)	(BPF1X180S618)	(7054/26)	NUDOB250B0046 (BKB250U43B)	H140U40H353P5 (BDL140U6060)		
12A (NEI-APE Bellis)	(BPF1D160AS603)		(BKB271V5083B)	H120V35EP6 (BDL120V20)		
18A (NEI-APE Bellis)	(BPF1D180AS603)		(BKB271V5083B)	H110V45EP8 (BDL110V114)		
				H140V47HP8 (BDL140V698)		
22A (NEI-APE Bellis)	(BPF1D180AS506)		NVDOB350D4043 (BKB350V43B)	H125V45GP8 (BDL125V6010)		
	(A1AD180/8)			H140V47HP8 (BDL140V698)		
H (NEI-APE Crossley, up to 300 rpm)	FCCAB180X0304 (CC18AX304) (BPF1CC180CY6612)	6/110C (7022/120A)	NTDOB080G5168 (BKB80T5168B) (BKB80T5080B)	H86T37FP4 (BDL86T6038)	193	99/285

Rolls-Royce Power Engineering

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
H (NEI-APE Crossley, 300 to 500 rpm)	FCCAB180X0304 (CC18AX304) (BPF1CC180CY6612)	6/110C (7022/120A)	NTDOB080G5168 (BKB80T5168B) (BKB80T5080B)	H86T45F527P4 (BDL86T6245)	193	99/258
H (NEI-APE Crossley, above 500 rpm)	FCCAB180X0304 (CC18AX304) (BPF1CC180CY6612)	6/110C (7022/120A)	NTDOB080G5168 (BKB80T5168B) (BKB80T5080B)	H86T50F527P4 (BDL86TY6287)	193	
E (NEI-APE Crossley, up to 750 rpm)			NTDOB050G4644 (BKB50T644B) (BKB50T106B)	H86T30FP4 (BDL86T6248)	200	
E (NEI-APE Crossley, above 750 rpm)			NTDOB050G4644 (BKB50T644B) (BKB50T106B)	H86T37FP4 (BDL86T6038)	200	
E Flat (NEI-APE Crossley, All Speeds)			NTDOB080G4644 (BKB80T644B)	H120T37FP4 (BDL120T6040)	200	
QVD (NEI-APE Crossley, All Speeds)			NTDOB150G4595 (BKB150T595B)	H130T35GP8 (BDL130T6055)	159	99/329
C (NEI-APE Crossley, All Speeds)	FXOAB200B0096 (A1AX200/3S96)	21/19D (21/19D)	NUDOB200B0046 (BKB200U43B)	H110U57H353P6 (BDL110U6345)	159	
BW Mk III (NEI-APE Crossley, All Speeds)			(BKB35S579)	BDN12SD12	124	
LD, KV (Heavy Fuel, Cooled Pistons, Ullstein Bergen)	FCCAB180B0584 (FCCAB180B0462)	6/110C (6/110C)	NTCLB250F0475	HL150T38H663P7 (HL150T37H663P7)	255	99/367
	FCCAB200B0584	6/110E				
LD (Cooled Pistons, Ullstein Bergen)	FCCAB180B0584 (FCCAB180B0462)	6/110C (6/110C)	NTDOB200F0502	HL150T38H833P7 (H150T38H531P7) (H150T37H531P7)	255	99/391
	FCCAB200D0584	6/110E				
L Uprated (Ulstein Bergen)	FCCAB200B0584	6/110E	NTDOB200F0539	H150T38H833P7 (H150T38H531P7) (H150T37H531P7)	255	99/416
L Uprated (Heavy Fuel, Ulstein Bergen)	FCCAB200B0584	6/110E	NTCLB200F0540	HL150T38H663P7 (HL150T37H663P7)	255	99/437
KV (Light Fuel, Cooled Pistons, Ulstein Bergen)	FCCAB180B0584 (FCCAB180B0462)	6/110C (6/110C)	NTDOB250F0502	H150T38H833P7 (H150T38H531P7) (H150T37H531P7)	255	99/389

Rolls-Royce Power Engineering

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
KV (Uncooled Pistons, Ullstein Bergen)	FCCAB180B0584 (FCCAB180B0462)	6/110C (6/110C)	NTDOB250F0502	H140T38H531P7	255	99/388
KV Uprated (Heavy Fuel, Ullstein Bergen)	FCVAB220C0908 (FCVAB200C0857)	36/215F (36/112E)		HL150T36L835P5	255	99/552T
	FCVAB200C0857 (FCVAB200C0764)	36/112E (36/112E)	NTCLB250F0475	HL150T38H663P7 (HL150T37H663P7)	255	99/367
	FCVAB200B0764	36/112E		HL150T34L835P5 H150T36L833P5	255 255	99/520T 99/551T
KV Uprated (Light Fuel, Ullstein Bergen)	FCVAB220C0908 (FCVAB200C0857)	36/215F (36/112E)		HL150T36L835P5	255	99/552T
	FCVAB200C0857 (FCVAB200C0764)	36/112E (36/112E)	NTDOB250F0502	H150T38H833P7 (H150T38H531P7)	255	99/389
	(FCVAB200B0764)	(36/112E)		H150T34L833P5 (H150T37H531P7)	255	99/519T
	(FCVAB200D0629)	(36/59E)	NTDOB250H0585	H150T38H810P7	255	99/450
LS (Uncooled Pistons, Ullstein Bergen)	FCCAB180B0584 (FCCAB180B0462)	6/110C (6/110C)	NTDOB200F0502	H140T38H531P7	255	99/388
	FCCAB200B0584		6/110E			
RS, RT (Ullstein Bergen)			NTDOB200F0502	H140T34H531P7 (H140T34H531P7)	255	99/388

Skoda Diesel

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
6L525 II PS (Cooled Injector)	FEOAB340B0409 (E34BX409)	32/92F (32/36F)	NVDOB525C0330 (B525VB330)	HL150V65H401P9	207	99/375
			NVCOB525C0358	HL150V65H562P9	245	99/376

Wärtsilä

(page 1)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
CUMMINS WÄRTSILÄ:						
A.G.O. 'G'	FCCAB160B0529 (FCCAB160B0467) (FCCAB160X0467)	6/110A (6/110A) (6/110A)				
UD45 RVN (H.P. Pipe 60° Cone Fitting)	FCCAB200B0551 (FCCAB200B0532)	6/110E (6/110E)				
	FCCAB200B0619 (FCCAB200B0500) (FCCAB200X0500)	6/110E (6/110E) (6/110E)				
UD45 RVR (Type 5, Uprate)	FCVAB220B0661 (FCVAB220X0623) FCVAB220B0663	36/62F (XP10015F) 36/92F				
UD45 RVR	FCVAB220B0832 (FCVAB220B0784)	36/234F (36/119F)				
BCS12C (Dujardin M.S.)	FCOAB160C6528 (BPF1C160BS6528)	3/412G (7022/44)	NTDOB150G5165 (BKB150TD5165B)	H120T37GP4 (BDL120T6398) (BKB150TD60B)	138	
BCS12D (Dujardin M.S.)	FCCAB180B0376 (CC18AS376)	6/110C (6/110C)	NTDLB150F0401	HL140T45F200P3	172	99/211
BS37D (Dujardin M.S.)	FXOAB180B0274 (A1AX180/3S274)	21/19C (21/19C)	NTDLB175F0103 (BL174TF103)	HL130T45G200P5		
SN (Duvant, Crepelle)	FCOAB180B0407 (A1AC180/11S407)	3/399K (3/399K)		H120T35HP3 HL120T35H200P3		
SNSR, SNSRR (Duvant, Crepelle, 250 mm bore)	FCCAB180B0444 (FCCAB180B0380)	6/110C (6/110C)	(BL249TF357)	HL155T30K635P4		
	FCCAB180B0648 (CC18AS380)	6/110C (6/110C)				
	FCCAB180B0693 (CC18AS323)	6/110C (6/110C)				

Wärtsilä

(page 2)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
SNSR, SNSRR (Duvant, Crepelle, 250 mm bore)	FCCAB200B0648 (FCCAB200B0569) (FCCAB200B0460) (FCCAB200B0444) (FCCAB200B0380) (CC20AS380)	6/110E (6/110E) (6/193E) (6/110E) (6/110E) (6/110E)		HL155T36L642P4 (HL155T36L714P4) (HL155T36L549P4) (HL155T38K200P6)		
(Heavy Fuel)	FCCAB200B0648 (FCCAB200B0569)	6/110E (6/110E)		HL155T38K556P6		
(20 mm stroke)	FCVAB180B0726	36/99C				
SNSR, SNSRR (Duvant, Crepelle, Uprated 16 mm stroke) (Uprated 20mm stroke)	FCVAB220B0698 FCVAB200B0726 FCVAB220B0726	36/92F 36/99E 36/99F				
VJ (Duvant, Crepelle)	FCCAB200B0444 (FCCAB200B0380) (CC20AS380)	6/110E (6/110E) (6/110E)				
VJ (Duvant, Crepelle, Dual Fuel)	FCCAB180B0444	6/110C				
VDNL 170/600 (Bolnes)	FCCAB180B0715	6/472C	NTDOB080F0558	HOT60A823P8 (HOT58A781P8)	310	99/458
FS9 (International SARL, Naturally aspirated)	FCCAB160B0444 (FCCAB160X0444)	6/110A (6/110A)	*NSDLB087E0444 (NSDLB087X0444)	*HL160S33F558P7	236	
FS9-HSC (International SARL)	FCCAB180B0536 (FCCAB180B0444) (FCCAB180X0444)	6/110C (6/110C) (6/110C)	*NSDLB087E0444 (NSDLB087X0444)	*HL160S33G558P7	236	99/310
SNSR, SNSRR (International SARL, Heavy Fuel, 260 mm bore)	FCCAB200B0648	6/110E		HL155T38K556P6		
SN (International SARL, 260 mm bore)	FCVAB220B0771	36/92F				
<u>NEW SULZER DIESEL:</u>						
LDA28A (British)	(A1AX180/3S359) (BPF1X180S6591) (BPF1X180S6445)	(21/218) (7054/78)	NTDOB200G5033 (BKB200T5033)	H145T42H531P6 (BDL145T6252)	269	99/316

Wärtsilä

(page 3)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
LDA28B, LDA28C (British)	FXOAB190B0270 (A1AX190/3S270) (BPF1X190S6593) (BPF1X190S6558)	21/203 (21/203) (7054/78A)	NTDOB200G5033 (BKB200T5033)	H145T45H532P6 (BDL145T6313)	269	99/262
LDA28A (Continental)	FXOAB180B0332 (A1AX180/3S332) (BPF1X180S6592) (BPF1X180S6511)	21/218 (21/218) (7054/78)	NTDOB200G0344 (B200TG344) (BKB200T5066)	H145T42H531P6 (BDL145T6252)	269	99/255
LDA28B (Continental)	FXOAB190B0331 (A1AX190/3S331)	21/203 (21/203)	NTDOB200G0344 (B200TG344) (BKB200T5066)	H145T45H532P6 (BDL145T6313)	269	99/256
STORK WARTSILA DIESEL, NETHERLANDS:						
RUB215 (Early Engines)	FCOAB160B0406 (A1AC160/11S406) (A1AC160/11S369) (A1AC160/11S118)	3/298G (3/298G) (3/298G) (3/298G)	NTDOB085F0388 (B85TF388) (B85TF339) (B85TF103)	HOT135A369P9 (P3T6S359A) (BDN15TPX2886)	221 177 177	99/381
RUB215 (Low-metallic Engine)	FCOAB160A0126 (A1AC160/9S126)	3/298G (3/298G)	NTDOB085F0388 (B85TF388) (B85TF339)	P3T6S359A	177	
RUB215 (900 to 1000 rpm only)	FCOAB160B0428 (A1AC160/11S428)	3/298G (3/298G)	NTDOB085F0388 (B85TF388)	HOT120A369P9	221	99/380
TEBS290 (428 rpm max) (525 rpm max)			NTDLB275F0328 (BL274TF328) (BL274TFX370) (BL274TF10)	HL155T40E200P5 HL155T45E200P5	259 259	
TMAB270			NTDLB198F0280 (BL199TF280) (BL199TF103)	HL132T40H200P4	259	
TMAB270 (137½ BHP/Cyl at 380 rpm)			NTDLB198F0280 (BL199TF280) (BL199TF103)	HL132T37H200P5	259	
TM410	FEOAB300C0621 (FEOAB300C0577) (FEOAB300C0464)	32/89D (32/89D) (32/89D)				
	FEOAB270C0426 (FEOAB270X0426) (E27BX333)	32/88 (32/88) (XP7996B)				

Wärtsilä

(page 4)

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
TM410D	FEOAB300D0829 (FEOAB300D0780)	32/150D (32/147D)				
TM620	FFOAB460A0720 (FFOAB460X0673) (FFOAB460X0646)	38/48C (38/48C) (38/48C)	NVCOA826C0526 (NVCOA826X0526)	HL150V100L744P12	350	99/410
	FFOAB460A0795	38/48C	NVCOA826C0526	HL155V100L855P18	350	99/486V
	FFOAB460A0868	38/48C	NVCOA826C0526	HL153V90L900P12	350	99/523V
	FFOAB460A0886	38/98C				
	FFOAB460A0914	38/101C	NVCOA826C0526	HL153V90L900P12	350	99/523V G50010488 from 1Oct2009
<u>WARTSILA DIESEL, FINLAND:</u>						
VASA 32	FDPAR320B0879	35/38BK				
VASA 32	FDPAR320B0854 (FDPAR320B0817)	35/32BK (35/6AH)				
VASA 32	FDPAR320B0854 (FDPAR320B0817)	35/32BK (35/6AH)				
W32F (Heavy Fuel)	FEPAB290C1048	44/39A	NUCOB350D0760	H155U54L1055P9	605	99/670U
W32F (Light Fuel)	FEPAB290C1048	44/39A	NUCOB350D0760	XH155U54L1061P9	605	99/672U
<u>WARTSILA DIESEL, SWEDEN:</u>						
F10 (Dry Injector, Nohab)	FCCAB200B0439	6/110E	NTDOB200F0493 (NTDOB200F0469)	H155T34HP5 (H155T35H736P5) (H155T34H518P5)	276	99/439
F10 (Cooled injector, Nohab)			NTCLB200F0461	HL155T34H663P5	276	99/394
<u>WARTSILA PROPULSION, NORWAY:</u>						
AX (AS Wichmann)			NTDOB175H0519 (NTDOB175H0464)			

* No Longer Manufactured

Waukesha Engine Division

Engine Type (Remarks)	Pump Type Code Current Rang (Superseding)	Element Type Code Current Range (Superseding)	Holder Type Code Current Range (Superseding)	Nozzle Type Code Current Range (Superseding)	Setting Pressure (Bar)	Injector Number Current Range
606HDN & 8D6HDN (Brons)	FCCAB180D0444	6/110C				
RUB 215 (Brons)	FCOAB160B0406	3/298G	NTDOB085F0388	HOT135A369P9	221	99/381

We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

Please reference publication **55143D**.



PO Box 1519, Fort Collins CO 80522-1519, USA
1000 East Drake Road, Fort Collins CO 80525, USA
Phone +1 (970) 482-5811 • Fax +1 (970) 498-3058

Email and Website—www.woodward.com

**Woodward has company-owned plants, subsidiaries, and branches,
as well as authorized distributors and other authorized service and sales facilities throughout the world.**

Complete address / phone / fax / email information for all locations is available on our website.