

MV Norna Engine room components

Componente	Hersteller	Typ	Seriennummer	Remarks
Main Engine (stb)	Ruston Diesel Ltd.	6AT350M	IH9399	
Main Engine (port)	Ruston Diesel Ltd.	6AT350M	IH9400	
Turbocharger (stb)	Napier	SA085	2446	
Turbocharger (port)	Napier	SA085	2447	
Governor (stb)	Regulators Europa	1112V-4G-15JBBBACVVA	8617401	
Governor (port)	Regulators Europa	1112V-4G-15JBBBACVVA	8617401	
LO Duplex Filter (x2)	Vokes	TD 34	VKSG 3431, VKSG 3433	
Air Interlock Valve (x2)	AMOT	4123C2110BA-AA	D861	
Magnetic Level Switches (x2)	Mobrey	S01DF85	8610	
J.W. Pump	Pegson	4C19T/106 TSC-D	9897-86-1	1133L / min @ 20 m
J.W. Pump	Pegson	4C19T/106 TSC-D	9933-86-1	1133L / min @ 20 m
S.W. Pump	Pegson	4C44T/106 TC-Z-200	9899-86-1	1133L / min @ 22,5 m
S.W. Pump	Pegson	4C44T/106 TC-Z-200	9900-86-1	1133L / min @ 22,5 m
LO Pressure Pump	Ruston	-	80-307-01423-710	690l/min @ 42 kg
LO Pressure Pump	Ruston	-	80-307-01423-720	690l/min @ 42 kg
Fuel Transfer Pump	Varley	5SR-04F-S	195 / 0785005	36 l/min @0.5 bar
Fuel Transfer Pump	Varley	5SR-04F-S	261 / 2980046	36 l/min @0.5 bar
Crankshaft Damper	Holset	8 024 801 102 200		
Crankshaft Damper	Holset	8 024 801 102 200		
Crankshaft	Alfing	80-231-017-13-101		
Crankshaft	Alfing	80-231-017-13-101		
Gearbox (stb)	Ulstein	600 AGSC-S-P-KP	1317	3000 HP 600 RPM R.Ratio 2.77 to 1 PTO Pwr 600 KW PTO Spd 1500 RPM
Gearbox (port)	Ulstein	600 AGSC-S-P-KP	1316	3000 HP 600 RPM R.Ratio 2.77 to 1 PTO Pwr 600 KW PTO Spd 1500 RPM
Gearbox Cooler (port)	Ulstein	152 / 1500 - VS - 29	11531196	max pressure 13 Kp/cm ³ running temp 55-60°C
Gearbox Cooler (stb)	Ulstein	152 / 1500 - VS - 29	11531182	max pressure 13 Kp/cm ³ running temp 55-60°C

Stand By Gearbox LO Pump 1	Dowty	3PS 210		100 l/min @ 1500 RPM
Stand By Gearbox LO Pump 2	Dowty	3PS 210		100 l/min @ 1500 RPM
Gearbox SW Cooling Pump (stb)	Hamworthy	B 80 V	42978-21	15m ³ /hr at 21m
Gearbox SW Cooling Pump (stb) E-Motor	GEC	D132SD	BH25717601	4.5 KW 9.2 A 1440 RPM
Gearbox SW Cooling Pump (port)	Hamworthy	B 80 V	42978-22	15m ³ /hr at 21m
Gearbox SW Cooling Pump (port) E-Motor	GEC	D132SD	BH25717601	4.5 KW 9.2 A 1440 RPM
Generator (stb)	Newage	MSC 734A	L7080	750 KVA 1500 RPM 1043 A
Generator (port)	Newage	MSC 734A	L6868	750 KVA 1500 RPM 1043 A
Coupling for main propulsion	Vulkan	RATO S Size 2921 / Series 2000		2206 kW at 600 RPM
Coupling for auxiliary drive	Vulkan	RATO S Size 1441 / Series 2400		600 kW at 1500 RPM
Heatexchanger for CW	Serck Heat Transfer	77 Sq Ft	282583 / 01	
Heatexchanger for CW	Serck Heat Transfer	77 Sq Ft	282583 / 02	
Heatexchanger for LO	Serck Heat Transfer	147 Sq Ft	282584 / 01	
Heatexchanger for LO	Serck Heat Transfer	147 Sq Ft	282584 / 02	
LO Seperator 1 (stb)	Alfa Laval	WHPX.405 TGD-24-50	4036752	
E-Motor	GEC	Induction 5.4 V RPM 1440 415V	BH22356501	
LO Seperator 2 (port)	Alfa Laval	WHPX.405 TGD-24-50	4036753	
E-Motor	GEC	Induction 5.4 V RPM 1440 415V	BH22356501	
GO Seperator	Alfa Laval	WHPX.405 TGD-24-50	4036681	
E-Motor	GEC	Induction 5.4 V RPM 1440 415V	BH22356501	
Electrical Heater LO Sep	Alfa Laval	EHS - 22KW 440V 60HZ	5254	22KW 440 V 60 Hz
Electrical Heater LO Sep	Alfa Laval	EHS - 22KW 440V 60HZ	5255	22KW 440 V 60 Hz
Electronic Programm Units	Alfa Laval	EPC 30	4690	
Electronic Programm Units	Alfa Laval	EPC 30	4686	
Electronic Programm Units	Alfa Laval	EPC 30	4672	
Steering Gear	Willi Becker	2Z-ZE/ZE-20J	1264	45° P - 45° S

Rudder	Becker			
Rudder	Becker			
A.C. Motor Steering Gear (port)	Willi Becker	LBL-160L/4T	2311162	
A.C. Motor Steering Gear (stb)	Willi Becker	LBL-160L/4T	2311163	
Steering Gear Hydraulic Pumps	Sauer & Sohn	Q=2x67 l/min N=2x18,5 KW		
Steering Gear Hydraulic Pumps	Sauer & Sohn	Q=2x67 l/min N=2x18,5 KW		
Auxiliary Engine 1	Gardner	4SC SA	238487	202.1 KW 1500 RPM
Auxiliary Engine 2	Gardner	4SC SA	238488	202.1 KW 1500 RPM
Auxiliary Generator	Newage	MSC 434 E	L6588	330A 90 KW 1500 RPM 237.5 KVA
Auxiliary Generator	Newage	MSC 434 E	L6588/1	330A 90 KW 1500 RPM 237.5 KVA
Flexible Half Couplings Aux Eng	Holset	.75 RB S.G. Iron	259129 M	-
Flexible Half Couplings Aux Eng	Holset	.75 RB S.G. Iron	259130 M	-
Sludge Transfer Pump	Comet	Vertical Vane	MV 4310	2.5m ³ /hr at 20m
General Service Pump	Hamworthy	B3 x 2VP	42978-01	40 m ³ /hr at 45 m
E-Motor General Service Pump	GEC	D 160 LD	FH 48611601/3	15 KW 27.5 A 2900 RPM
Ballast Pump	Hamworthy	B3 x 2VP	42978-02	40 m ³ /hr at 45 m
E-Motor Ballast Pump	GEC	D 160 LD	FH 48611601/2	15 KW 27.5 A 2900 RPM
Fire Pump	Hamworthy	B3 x 2VP	42978-03	40 m ³ /hr at 45 m
E-Motor Fire Pump	GEC	D 160 LD	FH 48611601/1	15 KW 27.5 A 2900 RPM
Fuel Oil Transfer Pump 1	Hamworthy	SLF 120 R42 U12 1 W 1	42978-04	11.7 m ³ /hr at 1.72 bar
Fuel Oil Transfer Pump 1 E-Motor	GEC	D 112 M	BH 22414601	3.5 KW 6.7 A 2820 RPM
Fuel Oil Transfer Pump 2	Hamworthy	SLF 120 R42 U12 1 W 1	42978-05	11.7 m ³ /hr at 1.72 bar
Fuel Oil Transfer Pump 2 E-Motor	GEC	D 112 M	BH 22414601	3.5 KW 6.7 A 2820 RPM
Emergency Fire Pump	Hamworthy	ECB 80 HP	429789-06	35 m ³ / hr at 46.84 m
Motor Emergency Fire Pump	R.A. Litser	Four stroke, 2 cylinder direct injection diesel	35 02666 TS2 A 42	
FO Circ. / Transfer Pump 1	Hamworthy	SPF20 R46 G8	42978/25	1.23 m ³ /hr at 20m
FO Circ. / Transfer Pump 1 E-Motor	GEC	D80D	SH 29250801	0.55 KW 1.4 A 1400 RPM
FO Circ. / Transfer Pump 2	Hamworthy	SPF20 R46 G8	42978/26	1.23 m ³ /hr at 20m

FO Circ. / Transfer Pump 2 E-Motor	GEC	D80D	SH 29250801	0.55 KW 1.4 A 1400 RPM
Starting Air / Bottle Charging Compressor 1	Hamworthy	2 SM20A 35	42978-08	40m ³ /hr at 25 bar
Starting Air / Bottle Charging Compressor 1 E-Motor	GEC	D 160 L	FH 48611603 /2	10.5 KW 20.5 A 1450 RPM
Starting Air / Bottle Charging Compressor 2	Hamworthy	2 SM20A 35	42978-09	40m ³ /hr at 25 bar
Starting Air / Bottle Charging Compressor 2 E-Motor	GEC	D 160 L	FH 48611603 /1	10.5 KW 20.5 A 1450 RPM
Control Panel for Starting Air / Bottle Charging Compressor	ACME	SA 7344	42978/10	10.5 KW 415 V / 3ph / 50 Hz
Control Panel for Starting Air / Bottle Charging Compressor	ACME	SA 7344	42978/11	10.5 KW 415 V / 3ph / 50 Hz
Sequence Selector for Starting Air / Bottle Charging Compressor	ACME	SA 7343	42978 / 12	415 V / 3ph / 50 Hz
Oily Water Separator	Hamworthy	HS2.5 MK 11	6399	2.5m ³ /hr Quality less than 15 ppm Dis. Head 13m
Discharge Pump for Oily Water Separator	Brook Compton Parkinson	D.80CH	R809570/619	0.55 KW 415V/3ph/50Hz
Sewage Treatment Unit	Super Trident	ST 4 A	42978-07	3100l/day 415V/3ph/50Hz 3.55 KW
Vacuum Sewage Collecting Unit	EVAC Envirovac Systems	A151304/1227	101229	2.5m ³
Injector (x2)	EVAC Envirovac Systems	AISI 304	2185 / 2218	
Vacuum Sewage Pump 1	EVAC Envirovac Systems	QSH 5.5	A 16014	4 KW / 415 V / 3 ph / 50 Hz
Vacuum Sewage Pump 2	EVAC Envirovac Systems	QSH 5.5	A 16014	4 KW / 415 V / 3 ph / 50 Hz
Sewage Treatment Compressor	EVAC Envirovac Systems	1022-P720-R80	86-15662	
StandBy Sewage Treatment Compressor	EVAC Envirovac Systems	1022-P720-R80	85-14763	
Fresh Water Pressure Set 1	Mono Berlin	CAB22G / IR5/H1-DOG	C154670/1	5.4 m ³ /hr
Fresh Water Pressure Set 2	Mono Berlin	CAB22G / IR5/H1-DOG	C154670/2	5.4 m ³ /hr
Watertight Doors Hydraulic Doors	Winel	-	813000047	0,75 KW 1400 RPM
Launch and Recovery Davit StB	NED-DECK	3 t SWL		
Launch and Recovery Davit Port	CALEY OCEAN SYSTEMS	2.5 t SWL	Proj. No. J1549	
Launch and Recovery Davit Port Hydraulic Power Pack	CALEY OCEAN SYSTEMS	56 ltr/min @ 225 bar / 113 ltr/min @ 50 bar		
Launch and Recovery Davit Port	CALEY OCEAN SYSTEMS	37 kW, 440V, 3 Phase, 60 Hz		

Hydraulic Power Pack E-Motor				
Launch and Recovery Davit Port Release Hook	Cranston Eagle	APR 356-CB	9424-1	
Launch and Recovery Davit Port Winch Drive Motor	SAI Hydraulic Motors	SAI L5 - 1350		
MOB Boat Crane (port)	Atlas Crane	AK 4503C		2079
MOB Boat Crane (stb)	Atlas Crane	AK 4503C		2080
Windlass (port)	Clark Chapman	Electro Hydraulic	21001/01P	Chain Pull 8 t @ 19m / min
Windlass (stb)	Clark Chapman	Electro Hydraulic	21001/01S	Chain Pull 8 t @ 19m / min
Bow Thruster	Ulstein	90 TV A		
Bow Thruster Hydraulic Pump	Dowty	2 P 3070 C		38l/min
Bow Thruster Propeller Motor	NEBB/VEPP	355 ML4		1460 rpm / 368Kw
CP Installation	Ulstein	Propeller Diameter 2900mm / 4 blades / speed 217 rpm	F 1316	Anticlockwise Bronze
CP Installation	Ulstein	Propeller Diameter 2900mm / 4 blades / speed 217 rpm	F 1317	Clockwise Bronze
Workboat Delta	SFPA RIB 7	6,80 m		
Workboat Arctic	SFPA RIB 8	6,75 m		
Feuerlöscheinrichtung Engine / Bow Thruster Room	FM 200 Flutungsanlage			