

Lubrication Schedule

Ship Name:	HMCC Seeker
IMO No.	9234795
Hull No:	594852
Builder:	Damen Shipyards
Year Built:	2001
Ship Type:	Customs Patrol Vessel
DWT:	0
Owner/Customer:	UK Border Force
Authorised By:	Barry Sullivan

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Lubricants Summary

Lubricating Oils

MHP 153	Shaft Bearing Stern Tube General Oiling Gearbox	Bearings Bearings & Seals Oil Points Enclosed Gears
CRB Multi 15W-40 CI-4/E7	Emergency Fire Pump Engine Salvage Pump Engine Boarding RIB Engine Auxiliary Engine Main Engine	Crankcase Crankcase Crankcase Crankcase
Alpha SP 150	Capstan MOB Boat Davit Bow Thruster Anchor Winch	Enclosed Gears Enclosed Gears Enclosed Gears Enclosed Gears
Alpha SP 220	Boarding RIB Engine Boarding RIB Engine	Gearbox
Transmax Dex III Multivehicle	Purifier for Fuel Oil Boarding RIB Engine Steering Gear Stabilisers	Hydraulic Bucket System Enclosed Gears Steering System Hydraulic System Hydraulic System
Hyspin AWH-M 100	MOB Boat Davit Deck Hydraulic Powerpack	Reduction Gears Hydraulic System
Hyspin AWH-M 15	CPP Unit	Hydraulic System
Hyspin AWH-M 46	Air Conditioning Compressor Spare Parts	Crankcase System Brush Applied

Greases

BioTac MP	MOB Boat Davit General Greasing (Deck Machinery)	Open Gears & Wire Ropes Grease Points
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BioTac MP
Spheerol SX 2

Open Gears & Wire Ropes
Steering Gear
Rudder Carrier
Emergency Fire Pump
MOB Boat Davit
General Greasing (Below Decks)
Electric Motors, Pumps & Fans

Brush Applied
Bearings
Grease Points
Grease Points
Grease Points
Grease Points
Grease Points

Liability Disclaimer

This Lubrication Schedule has been prepared on the following basis (which the Owner / Customer acknowledges and accepts by making use of it):

- (i) The preparation of this Lubrication Schedule is governed by our standard Terms & Conditions of Sale (a copy of which can be found at the back of your Marine Lubricants Agreement and/or is available on request).
- (ii) In recommending which of our lubricants is most suited to a given piece of machinery, we have relied on information about that machinery which you or a third party have provided to us orally or in writing. Accordingly, we do not accept any liability for any inaccuracy in that information. If you become aware of any such inaccuracy, you should inform us immediately.
- (iii) This Lubrication Schedule replaces all previously dated lubrication recommendation schedules & surveys, which should be removed from use and destroyed.

NOTES

Number **Short Note**

A1 Applicable to All

Long Note

In some circumstances grade names may vary dependent on region. For more information please refer to the directory of marine services (DMS) or your local supply contact

Machinery Lubricants

<u>Category</u>	<u>Application</u>	<u>Castrol Recommendation</u>	<u>Notes</u>
MAIN PROPULSION			
Main Engine <i>Caterpillar</i> 3516 B TA HP	Crankcase	CRB Multi 15W-40 CI-4/E7	
Shaft Bearing <i>Railko</i> CY 160 LS	Bearings	MHP 153	
Stern Tube <i>JCM</i> MK2-M	Bearings & Seals	MHP 153	
CPP Unit <i>Kamewa</i>	Hydraulic System	Hyspin AWH-M 68	
Gearbox <i>Reintjes</i> WLS 930	Enclosed Gears	MHP 153	

PROPELLER UNITS and THRUSTERS

Bow Thruster <i>Promac</i> FP 70/580	Enclosed Gears	Alpha SP 150	
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STEERING GEAR

Steering Gear <i>Sperry</i>	Bearings Hydraulic System	Spheerol SX 2 Hyspin AWH-M 46	
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<u>Category</u>	<u>Application</u>	<u>Castrol Recommendation</u>	<u>Notes</u>
Rudder Carrier	Grease Points	Spheerol SX 2	

POWER GENERATION

Auxiliary Engine <i>Caterpillar</i> 3304B DI-T	Crankcase	CRB Multi 15W-40 CI-4/E7	
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EMERGENCY MACHINERY

Bow Thruster <i>Promac</i> FP 70/580	Enclosed Gears	Alpha SP 150	
Emergency Fire Pump -	Grease Points	Spheerol SX 2	
Emergency Fire Pump Engine <i>Lombardini</i> 15LD	Crankcase	CRB Multi 15W-40 CI-4/E7	
Emergency Fire Pump Engine <i>Motorenfabrik HATZ</i> 1B30	Crankcase	CRB Multi 15W-40 CI-4/E7	

ENGINE ROOM ANCILLARY MACHINERY

Purifier for Fuel Oil <i>GEA Westfalia Separator</i> OTC 2-02-137	Enclosed Gears	Hyspin AWH-M 100	
Stabilisers <i>Vosper Hovermarine</i> 200	Hydraulic System	Hyspin AWH-M 46	

<u>Category</u>	<u>Application</u>	<u>Castrol Recommendation</u>	<u>Notes</u>
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HOTEL SERVICES

Air Conditioning Compressor	Crankcase System	Aircol SW 68	
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DECK MACHINERY

Salvage Pump Engine	Crankcase	CRB Multi 15W-40 CI-4/E7	
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*Yanmar Marine System
L48*

Anchor Winch	Enclosed Gears	Alpha SP 220	
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Kraaijeveld

Capstan	Enclosed Gears	Alpha SP 150	
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*IMT
C303, EKS 1150*

Deck Hydraulic Powerpack	Hydraulic System	Hyspin AWH-M 46	
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Koppen & Letherm

LIFEBOAT MACHINERY

MOB Boat Davit	Enclosed Gears	Alpha SP 150	
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SEC Davits BV

Reduction Gears
Open Gears & Wire Ropes
Grease Points

Hyspin AWH-M 46
BioTac MP
Spheerol SX 2

Boarding RIB Engine	Crankcase	CRB Multi 15W-40 CI-4/E7	
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*Yanmar Marine System
6LP*

Gearbox
Steering System
Hydraulic Bucket System

Transmax Dex III Multivehicle
Hyspin AWH-M 15
Transmax Dex III Multivehicle

<u>Category</u>	<u>Application</u>	<u>Castrol Recommendation</u>	<u>Notes</u>
GENERAL LUBRICATION			
General Oiling	Oil Points	MHP 153	
General Greasing (Below Decks)	Grease Points	Spheerol SX 2	
General Greasing (Deck Machinery)	Grease Points	BioTac MP	Plain Bearings only
Open Gears & Wire Ropes	Brush Applied	BioTac MP	
Spare Parts	Brush Applied	Rustilo DW 330	
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<u>MISCELLANEOUS</u>			
Electric Motors, Pumps & Fans	Grease Points	Spheerol SX 2	