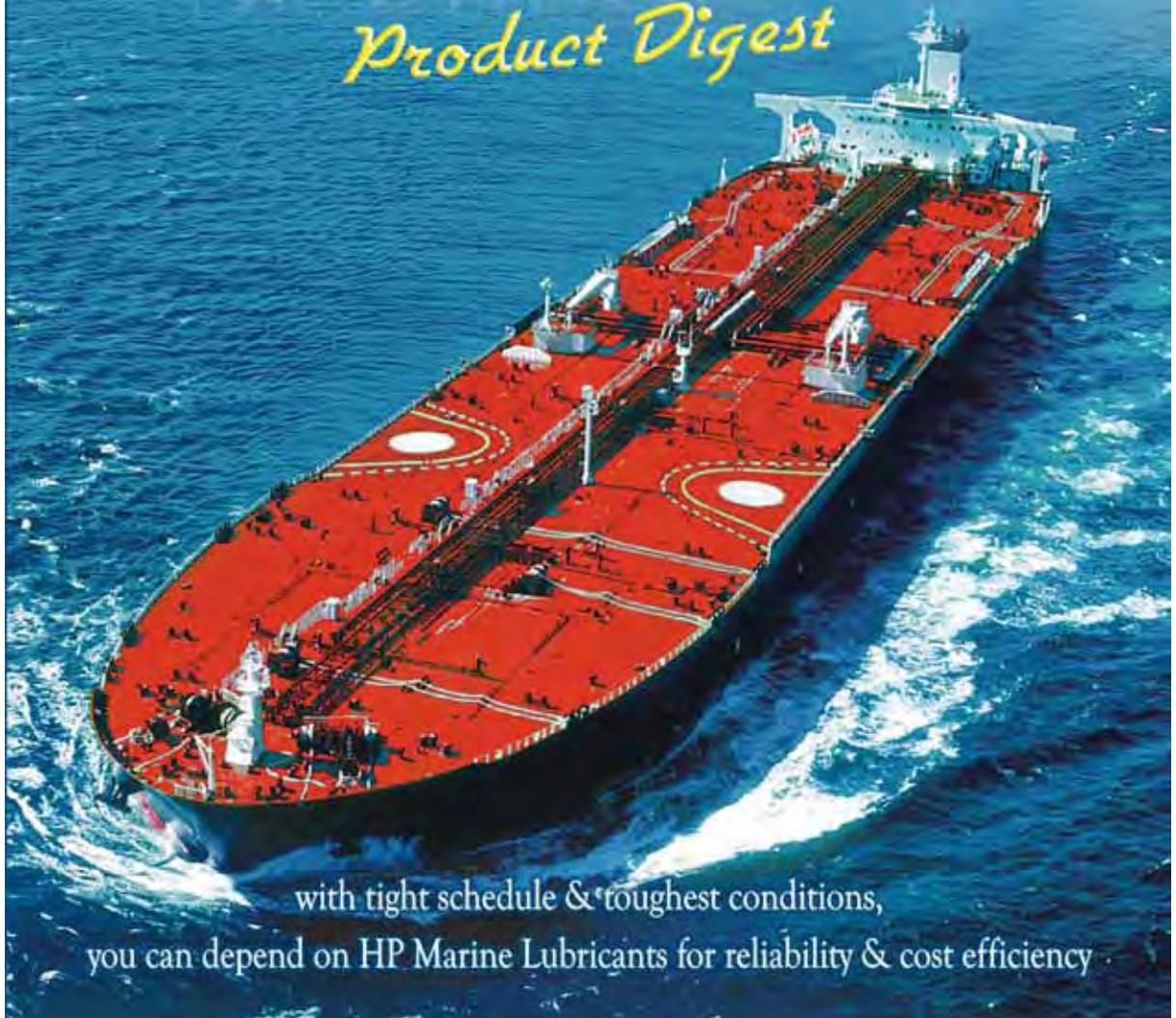




Marine Fuels & Lubricants

Product Digest



with tight schedule & toughest conditions,
you can depend on HP Marine Lubricants for reliability & cost efficiency

FOREWORD

Hindustan Petroleum Corporation Limited (HPCL) a Global Fortune 500 Company with turnover of over Rs.1 lakh crores in 2008-09 is engaged in Refining and Marketing of Petroleum Products. Mumbai and Visakh Refineries put together have nameplate capacity of 13 MMT per annum of processing crude oil. Our Lube Base Oils Refinery currently has a manufacturing capacity of 335 TMT per annum.

HPCL in Technology Tie-up with Total Lubmarine of France, manufacture and market Marine Lubricants in India.

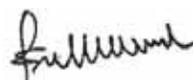
A well equipped R&D Center manned by experienced scientists, is involved in continuous upgradation of Lubricants. ISO accredited Blending Plants are located in Mumbai, Silvassa, Chennai and Kolkata.

HPCL is the first Company to introduce Fuel Oil 380 cSt (ISO RMG 380) in India for Bunkering Application which is preferred over 180 cSt (ISO RME 180) by almost all modern ships. HPCL has Residual Fuels FO 180/380 (RME 180/RMG 380) and Distillate Fuels HFHSD (ISO DMA/DMB) and LDO (ISO DMC) under its Marine Fuels Portfolio.

HPCL has registered its Bunker Supply Locations at Mumbai, Visakh, Kolkata and Cochin with the Directorate General of Shipping (DGS), Mumbai. HPCL has NABL accredited QC Laboratories at Visakh, Mumbai, Kolkata and Delhi.

A highly focused Direct Sales Business Unit would endeavour to raise the expectations of the Shippers and Industries for their Marine Fuels and Lubricating Oils requirements and provide international quality products and services to our valued customers.

This product digest presents concise descriptions of our product portfolio in addition to their main applications and guidelines for optimum utilization. This booklet would serve as a reference material and, to know more about our products we have positioned our Technical Services personnel at various Regional Offices listed under CUSTOMER CARE Section.



R. Sudhakara Rao
Executive Director – Direct Sales

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Marine Lubes
Trunk Piston
Engine Oils

AURELIA XL 3055 & XL 4055

Description

Aurelia XL 3055 & XL 4055 conforming to the specs better than API CF are resulting from the latest innovations in additive component technology.

Applications

Especially designed for the lubrication of medium speed diesel engines running on high sulphur heavy fuel oils.

Particularly suitable for engines in which a large alkalinity reserve is necessary due to the combination of a very high sulphur heavy fuel oil with a low lubricant consumption.

Bearing, stern tubes and reduction gear lubrication.

Special Features

- Excellent thermal stability
- Excellent detergent properties at high temperatures
- Excellent wear protection
- Very good filtration capacity

CHARACTERISTIC	UNIT	AURELIA XL	
		3055	4055
SAE Grade		30	40
Density at 15 °C	Kg/m ³	920	921
Kinematic viscosity at 40 °C	mm ² /s	110	140
Kinematic viscosity at 100 °C	mm ² /s	12.0	14.0
Flash Point (COC) ASTM D 92	°C	>230	>230
Pour Point	°C	- 9	- 9
BN (ex TBN) ASTM D 2896	mgKOH/g	55	55

Approvals

Aurelia XL is the latest evolution of the AURELIA range and approved by MAN B&W, Wartsila and other major engine builders.



AURELIA XL 3040 & XL 4040

Description

Aurelia XL 3040 & XL 4040 conforming to API CF are resulting from the latest innovations in additive component technology. They are especially designed for the lubrication of medium speed diesel engines.

Applications

Turbocharged main and auxiliary engines of all types and all ratings running on heavy fuel oils with very high sulphur content or when a substantial safety margin is required.

Particularly suitable for engines in which a substantial alkalinity reserve is desired.

Bearings, stern-tubes and reduction gear lubrication.

Special Features

- Excellent thermal stability
- Excellent dispersant properties at low temperatures
- Very good neutralizing capability of acidic components

CHARACTERISTIC	UNIT	AURELIA XL	
		3040	4040
SAE Grade		30	40
Density at 15 °C	kg/m ³	913	915
Kinematic viscosity at 40 °C	mm ² /s	110	140
Kinematic viscosity at 100 °C	mm ² /s	12.0	14.0
Flash Point (COC) ASTM D 92	°C	>230	>230
Pour Point	°C	- 9	- 9
BN (ex TBN) ASTM D 2896	mgKOH/g	40	40

Approvals

Aurelia XL is the latest evolution of the AURELIA range and satisfies the requirements and recommendations of the major engine manufacturers like Mireless Blackstone, MAN B&W, Daihatsu, SEMT Pielstick and Yanmar.



AURELIA XL 3030 & XL 4030

Description

Aurelia XL 3030 & XL 4030 conforming to API CF are resulting from the latest innovations in additive component technology. They are especially designed for the lubrication of medium speed diesel engines.

Applications

Turbocharged main and auxiliary engines of all types and all ratings running on LDO or furnace oil.

Bearings and stern-tubes.

Reduction gear lubrication.

Special Features

- Very good detergent properties at high temperatures
- Very good dispersant properties at low temperatures
- Very good neutralizing capability of acidic products of combustion.
- Excellent capacity for centrifuging and for separating out water and insolubles

CHARACTERISTIC	UNIT	AURELIA XL	
		3030	4030
SAE Grade		30	40
Density at 15 °C	Kg/m ³	908	909
Kinematic viscosity at 40 °C	mm ² /s	110	140
Kinematic viscosity at 100 °C	mm ² /s	12.0	14.0
Flash Point (COC) ASTM D 92	°C	>230	>230
Pour Point	°C	- 9	- 9
BN (ex TBN) ASTM D 2896	mgKOH/g	30	30

Approvals

Aurelia XL is the latest evolution of the AURELIA range and satisfies the requirements and recommendations of Mireless Blackstone, MAN B&W, Daihatsu, SEMT Pielstick, Wartsila, Yanmar and the major engine builders.

The Lubmarine logo features the word "Lubmarine" in a bold, sans-serif font. The "Lub" part is in red, and the "marine" part is in blue. A blue wave-like graphic is positioned below the "marine" text.

DISOLA M 3015 & 4015

Description

Disola M 3015 & 4015 are monograde engine oils for High and Medium speed diesel engines.

Applications

Oil specially devised for lubricating High and Medium speed diesel engines at sea and for fishing and river transport applications.

Main and auxiliary naturally-aspirated or supercharged engines of all types and ratings.

Journals, stern tubes and reduction drives / reversing gear.

Recommended for engines running on Gas oil and Marine Diesel oil.

Special Features

- Meets API CF
- High detergent, dispersant and anti-wear capabilities, ensuring cleanliness and long life for engine and transmission systems
- Oil film has good mechanical and thermal strength
- High alkalinity reserve which neutralizes acid combustion products
- Excellent resistance to the action of water

CHARCTERISTIC	UNIT	DISOLA M 3015	DISOLA M 4015
SAE Grade		30	40
Kinematic Viscosity at 40°C	mm ² /s	110	145
Kinematic Viscosity at 100°C	mm ² /s	12	14.2
TBN	Mg KOH/g	14	14

Approvals

Approved by ABC, Deutz, Mireless Blackstone, HiMSEN, Mitsubishi, Niigata, Stork, Wartsila and other major engine builders.

The logo for Lubmarine, featuring the word "Lubmarine" in a stylized font. "Lub" is in red and "marine" is in blue. A blue wave-like underline is positioned beneath the text.



Marine Lubes

Cylinder Oils

TALUSIA HR 70

Description

Talusia HR 70 is specially formulated for the cylinder lubrication of slow speed 2-stroke crosshead diesel engines.

Application

The most widely used lubricant for engines operating on intermediate or heavy fuels with a high sulphur level.

Special Features

- Minimal piston ring and liner wear
- Maximum cleanliness
- Reduced engine maintenance costs
- Extended periods between overhauls

CHARACTERISTIC	UNIT	TALUSIA HR 70
SAE Grade		50
Density at 15 °C	kg/m ³	940
Kinematic viscosity at 100 °C	mm ² /s	20
Pour Point	°C	- 9
Flash Point (COC) ASTM D 92	°C	> 230
BN (ex TBN) ASTM D 2896	mgKOH/g	70

Approvals

Lubricants of the TALUSIA HR range are approved by MAN B&W, Wartsila and other major engine manufacturers. They have proved their worth in thousands of engines working under widely diverse operating conditions.

The logo for Lubmarine, featuring the word "Lubmarine" in a blue, italicized sans-serif font with a blue wave-like underline.

TALUSIA LS 40

Description

Talusia LS 40 is resulting from the latest innovation in additive component technology. Especially designed for the cylinder lubrication of slow speed 2-stroke diesel engines when running with low sulphur fuel.

Applications

Specifically developed for cylinder lubrication when using low sulfur fuel

Special Features

- Minimal piston ring and liner wear
- Maximum cleanliness
- Reduced engine maintenance costs
- Extended periods between overhauls

CHARACTERISTIC	UNIT	TALUSIA LS 40
SAE Grade		50
Density at 15 °C	kg/m ³	912
Kinematic viscosity at 100 °C	Mm ² /s	20
Pour Point	°C	- 9
Flash Point (COC) ASTM D 92	°C	> 230
TBN , ASTM D 2896	mgKOH/g	40

Approvals

Talusia LS 40 satisfies the requirements and recommendations of Hyundai, MAN B&W, Wartsila and other major engine manufacturers.

The logo for Lubmarine, featuring the word "Lubmarine" in a bold, blue, sans-serif font with a red underline.

TALUSIA UNIVERSAL

Description

Talusia Universal cylinder oil suitable for use in engines running both high and low sulphur fuels. Its patented formulation is specially designed for the cylinder lubrication of slow speed 2-stroke diesel engines when running with fuel having a large range in sulphur level.

Applications

Talusia Universal covers the special operational needs when using fuel with a sulphur level between 0.5% and 4.5%.

With Talusia Universal there is no need to change to a special cylinder oil when entering in SECA.

Special Features

- Minimal piston ring and liner wear
- Maximum cleanliness
- Reduced engine maintenance costs
- Extended periods between overhauls

CHARACTERISTIC	UNIT	TALUSIA LS 40
SAE Grade		50
Density at 15 °C	kg/m ³	930
Kinematic viscosity at 100 °C	Mm ² /s	19
Pour Point	°C	- 9
Flash Point (COC) ASTM D 92	°C	> 230
TBN , ASTM D 2896	mgKOH/g	57

Approvals

Talusia Universal satisfies the requirements and recommendations of the engine manufacturers.

The logo for Lubmarine, featuring the word "Lubmarine" in a blue, italicized sans-serif font with a red underline.



Marine Lubes

System Oils

ATLANTA MARINE D 3005

Description

Atlanta M D 3005 is designed for the crankcase lubrication of slow speed 2 stroke crosshead Diesel engines.

Applications

Crankshaft lubrication.

Oil cooled pistons.

Shaft bearing lubrication.

Special Features

- Very good detergency level
- Very good thermal stability
- Excellent anti-rust and anti-corrosive properties
- High resistance to foaming

CHARACTERISTIC	UNIT	ATLANTA MARINE D 3005
SAE Grade		30
Density at 15 °C	Kg/m ³	895
Kinematic viscosity at 40 °C	mm ² /s	105
Kinematic viscosity at 100 °C	mm ² /s	11.5
Flash Point (COC) ASTM D 92	°C	>220
Pour Point	°C	- 9
BN (ex TBN) ASTM D 2896	mgKOH/g	6

Approvals

Atlanta Marine D 3005 is approved by MAN B&W, Wartsila and other major engine builders.

The logo for Lubmarine, featuring the word "Lubmarine" in a stylized font. "Lub" is in red and "marine" is in blue, with a blue wave-like underline beneath the "ine" part.



Marine Lubes
Hydraulic
Oils

HYMAROL

Description

Hymarol is anti-wear hydraulic oil with a high viscosity index and a low pour point. These oils meet the specifications of the world's leading hydraulic equipment manufacturers NF E 48603 class HV, DIN 51 524 part 3 class HVL, ISO 6743/4 class HV.

Applications

Hymarol range has been especially developed in order to satisfy the wide variations in temperature encountered with modern hydraulic systems.

Hymarol range are particularly recommended for all high pressure and high speed, vane, piston and gear type hydraulic pumps, and for use in all hydraulic equipment operating in extreme temperature conditions, including:

- Remote control systems
- Hydraulic deck machinery
- Steering gears

Special features

- Excellent anti-wear properties
- Excellent anti-corrosion and anti-rust properties
- Excellent water and air release properties
- High resistance to foaming

CHARACTERISTIC	UNIT	HYMAROL					
		12	22	32	46	68	100
ISO Viscosity Grade		12	22	32	46	68	100
Density at 15 °C	kg/m ³	861	865	868	876	879	886
Kinematic viscosity at 40 °C	mm ² /s	12.4	22.4	32.3	46	67.5	105.8
Viscosity Index		80	94	117	105	107	103
Flash Point (COC) ASTM D 92	°C	>157	>157	>190	>200	>200	>220
Pour Point	°C	-36	-36	-36	-30	-30	-24

HANDLING, HEALTH AND SAFETY

- Lubricants consisting of highly refined mineral oils with specific additives.
- In normal conditions of use, these lubricants present no particular toxic hazard.
- All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin.
- Prevent any risk of splashing, and keep away from combustible materials.
- Store under cover and away from any risk of contamination.
- A material safety data sheet complying with current legislation is available at our Direct Sales Regional Offices.

MARINE FUELS



Marine Fuels

Marpol

Introduction

Under International Maritime Organization (IMO), part of UNO, Marpol 73/78 is the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. “Marpol” is short term for Marine Pollution and “73/78” for the years 1973 and 1978.

Marpol 73/78 covers pollution by oil, chemicals, and harmful substances in packaged form, sewage and garbage. It includes regulations aimed at preventing and minimizing pollution from ships – both accidental pollution and that from routine operations – and currently includes six technical Annexes.

Annex I	Oil (entered into force on 2 nd October 1983)
Annex II	Noxious Liquid Substances carried in Bulk
Annex III	Harmful Substances carried in Packaged Form
Annex IV	Sewage
Annex V	Garbage
Annex VI	Air Pollution (entered into force on 19 th May 2005)

The Marine Environment Protection Committee (MEPC) is a subsidiary body which is empowered to consider any matter concerned with prevention and control of pollution from ships. In particular it is concerned with the adoption and amendment of conventions and other regulations and measures to ensure their enforcement.

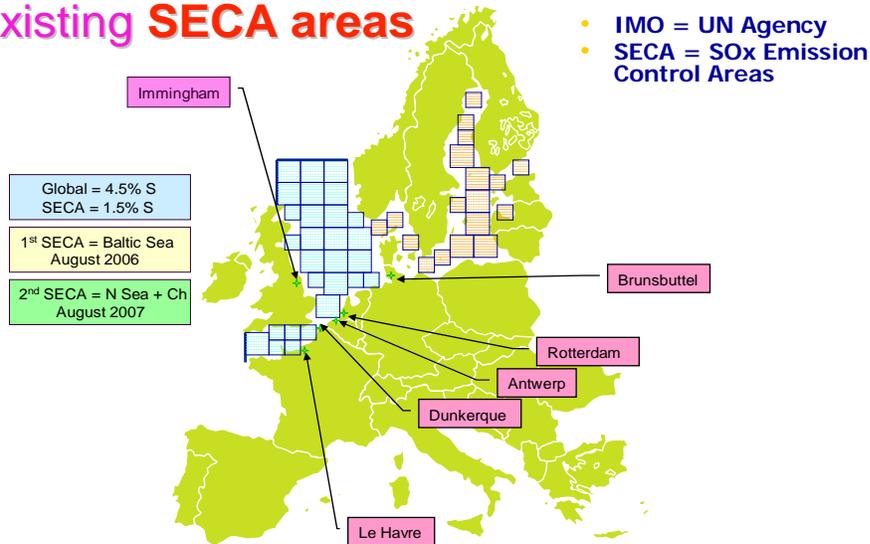
Marpol 73/78 Annex VI

This Annex to MARPOL 73/78 is a regulation which aims to prevent and reduce air pollution from ships which entered into force on May 19, 2005. Controlling the quality of fuel oil / bunker consumed onboard a vessel is one of the major objectives of this Protocol in order to prevent adverse gaseous emissions from ships to the atmosphere. It is applicable to all ships of 400 gross tonnage and above including drilling rigs and other platforms engaged in voyages.

The International Standard ISO 8217:2005 specifies the requirements for petroleum fuels for use in marine diesel engines and boilers, prior to appropriate treatment before use. This International Standard specifies four categories of distillate fuel and ten categories of residual fuel.

(S)ECA: "(SOx) Emissions Control Area", is the maritime area where vessels are obliged to burn low sulphur fuels or limit emissions of NOx. ECA areas are adopted by IMO after submission by member countries showing an environmental benefit.

The Sulphur Issue : existing SECA areas



As confirmed in 58th Session of the Marine Environment Protection Committee (MEPC 58), the main changes to MARPOL Annex VI will see a progressive reduction in sulphur oxide (SOx) emissions from ships, with the global sulphur cap reduced initially to 3.5% (from the current 4.5%), effective from 1st January 2012; then progressively to 0.5%, effective from 1st January 2020, subject to a feasibility review to be completed no later than 2018.

The limits applicable in Sulphur Emission Control Areas (SECAs) will be reduced to 1.0%, beginning 1st July 2010 (from the current 1.5%); being further reduced to 0.1%, effective from 1st January 2015.

Further, the North American (US – Canada) ECA has been approved in MEPC 59 in July 2009.



Sulphur percentages under a revised Annex VI

Region	2010	2012	2015	2020
Global	4.5%	3.5%	-	0.5%
SECA	1.0% (July 2010)	-	0.1%	-



Marine Fuels Distillate Fuels

(ISO 8217:2005)

Characteristics	Unit	Limit	High Flash High Speed Diesel (HFHSD) (ISO DMA/DMB)	Light Diesel Oil (LDO) (ISO DMC)
Density @ 15 °C	Kg/m ³	Min. Max	820 860	To be reported
Kinematic Viscosity @ 40 °C	cSt	Min. Max	2.0 5.0	2.5 15.0
Flash point (PMCC)	Degree C	Min	66	66
Pour point -winter -summer	Degree C	Max. Max.	3.0 15.0	12.0 21.0
Sulphur	% (m/m)	Max	0.25	1.5
Cetane Index		Min.	46	-
Carbon Residue (Ramsbottom) -on 10% residue -on whole sample	% (m/m)	Max. Max.	0.30 -	- 0.5
Ash	% (m/m)	Max	0.01	0.02
Sediments	% (m/m)	Max	0.05	0.10
Distillation Recovery -at 350 degree C -at 370 degree C	% (V/V)	Min. Min.	85 95	-
Water Content	% (V/V)	Max	0.05	0.25



Marine Fuels Residual Fuels

(ISO 8217:2005)

Characteristics	Unit	Limit	RME 180	RMG 380
Density @ 15 °C	Kg/m³	Max	991	991
Kinematic Viscosity @ 50 °C	Cst	Max	180	380
Flash point	Degree C	Min	66	66
Pour point	Degree C	Max	30	30
Carbon residue	% (m/m)	Max	15	18
Ash	% (m/m)	Max	0.10	0.10
Water	% vol	Max	1.0	1.0
Sulfur	% mass	Max	4.5	4.5
TSP	% (m/m)	Max	0.1	0.1
Vanadium	mg/kg	Max	200	200
Aluminum + Silicon	mg/kg	Max	80	80

GLOSSARY

- **AFS** – Anti-Fouling Systems
- **ASTM** – American Society for Testing and Materials
- **COLREG** – Regulation for Preventing Collision at Sea
- **DGS** – Directorate General of Shipping
- **DWT** – Dead Weight Tonnage
- **FOB** – Free On Board
- **HNS** – Hazardous and Noxious Substance
- **IMO** – International Maritime Organization
- **INMARSAT** – International Maritime Satellite Organization
- **IRS** – Indian Register of Shipping
- **ISO** – International Organization for Standardization
- **MARPOL** – Marine Pollution
- **MEPC** – Marine Environment Protection Committee
- **MMD** – Marine Mercantile Department
- **MOPAG** – Mean of Platts Arab Gulf
- **MOPS** – Mean of Platts Singapore
- **NABL** – National Accreditation Board for Testing and Calibration Laboratories
- **OPA** – Oil Pollution Act

- **OPRC** – Oil Pollution Preparedness, Response & Co-operation
- **POL** – Petroleum Oil Lubricants
- **SAE** – Society of Automobile Engineers
- **SECA** – Sulphur Oxide Emission Control Area
- **SOLAS** – Safety of Life at Sea
- **SOPEP** – Shipboard Oil Pollution Emergency Plan
- **STCW** – Standards of Training, Certification and Watchkeeping
- **TBN** – Total Base Number
- **ULCC** – Ultra Large Crude Carriers
- **UNO** – United Nations Organisation
- **VLCC** – Very large Crude Carriers



CUSTOMER
CARE
OFFICES

www.hindustanpetroleum.com

CUSTOMER CARE OFFICES
(Direct Sales Regional Offices)

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3

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4

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5

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16) Pune

3rd Floor, Next to Nehru Memorial Hall, 3/C, Dr. Ambedkar Road, **Pune – 411 001**

Name	Designation	Mobile	e-mail
A. Sanjaykumar S	Regional Manager	9423068117	adsul@hpcl.co.in
Amitabh Basu	Manager – Marketing	9225577125	abasu@hpcl.co.in
Nikhil Verma	Manager – Technical Services	9422147254	nikhil@hpcl.co.in
Debashis Pattnaik	Area Sales Manager	9422439123	debashisp@hpcl.co.in

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17) Raipur

2nd Floor, Madina Manzil, Medical College Road, **Raipur – 492 001**

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M K Panda	Manager – Technical Services	9425285624	pandamk@hpcl.co.in

18) Secunderabad

130/1, Sarojini Devi Street, Next to St.. Patrick School, **Secunderabad – 500 003**

Name	Designation	Mobile	e-mail
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Subhendu Mohanty	Manager – Marketing	9949991102	smohanty@hpcl.co.in
J Shankar	Manager – Technical Services	9949991104	shankarj@hpcl.co.in
P B Shravan	Sales officer	9347071529	shravanpudi@hpcl.co.in

19) Visakhapatnam

Petronilayam, China Waltair, Opp A U Gate, **Visakhapatnam - 530 003**

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B Nataraj	Exe. Sales Officer	9701597019	bnataraj@hpcl.co.in
L S S Vishnu	Sales Engineer	9490798578	landassvv@hpcl.co.in

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Marine Sales – Head Quarters Office

Lubes:

HPCL, 2nd Floor, Hindustan Bhavan, 8 S V Marg, Ballard Estate, **Mumbai – 400 001**

Name	Designation	Mobile	e-mail
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Sanjay Kumar	Chief Manager – Consumer & Marine Lubes	9833003445	sanjayk@hpcl.co.in
Anish Ranjan Deb	Marine Sales Officer	9930275135	anishdeb@hpcl.co.in

Fuels:

HPCL, 4th Floor, R & C Building, Sir J.J Road, Byculla, **Mumbai – 400 008**

Name	Designation	Mobile	e-mail
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Ashish Khanna	Senior Manager – Marine Sales	9820235536	akhanna@hpcl.co.in

Clearing and Forwarding Agents (CFA)

1. Kolkata (The Liberty Marine Syndicate Pvt. Ltd.)

Sagar Trade Cube, 104 S P Mukherjee Road, Kolkata – 700 026

Name	Designation	Mobile	e-mail
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P K Chatterjee	Sales Coordinator	9830620876	supply@libertyshipping.com

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2. Mumbai (Sunrise Petroleum Services)

301, Lavlesh Court, Pandit Varde Road, Bandra (West), **Mumbai – 400 050**

Name	Designation	Mobile	e-mail
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Anselm Creado	Sales Coordinator	9870302688	anselm@dentosindia.com

3. Visakhapatnam (SAV Enterprises)

Plot No. 92, M V P Double Road, Sector – 1, **Visakhapatnam – 530 017**

Name	Designation	Mobile	e-mail
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Siva	Sales Coordinator	9246815404	as@kanoil.in