



# **gandharoil**

## **REFINERY (I) LTD**

**(An ISO 9001:2000 Certified)**

### **PRODUCT CONTENTS WITH DESCRIPTION**

DIVYOL HLP CIRCULATING OILS  
DIVYOL ANTIWEAR CIRCULATING OILS  
DIVYOL R&O CIRCULATING OILS  
DIVYOL SPECIAL PURPOSE HYDRAULIC OILS  
DIVYOL SPINDLE OILS  
DIVYOL QUENCHING OILS  
DIVYOL WAY LUB OILS  
DIVYOL FLUSHING OILS  
DIVYOL GENERAL MACHINERY OIL  
DIVYOL INDUSTRIAL GEAR OILS  
DIVYOL CYLINDER OILS  
DIVYOL WIRE ROP COMPOUNDS  
DIVYOL SPARK EROSION OIL  
DIVYOL HEAT TRANSFER FLUID  
DIVYOL ANTIWEAR GEAR OILS  
DIVYOL SOLUBLE CUTTING OILS  
DIVYOL NON NITRITE SYNTHETIC COOLANTS  
DIVYOL GLASS MOULD OILS  
DIVYOL COMPRESSOR OILS  
DIVYOL SCEW COMPRESSOR OIL  
DIVYOL NON COROSSIVE STRAIGHT CUTTING OILS  
DIVYOL ACTIVE CUTTING OILS  
DIVYOL HONNING OILS  
DIVYOL WIRE DRAWING COMPOUNDS  
DIVYOL EXTREME PREASURE GREASES  
DIVYOL DG SET OILS

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### **DIVYOL HLP CIRCULATING OILS**

Divyol HLP Circulating Oils are of the Antiwear type having extreme pressure characteristics. These are blended from specially selected high viscosity index base-oils with additives to obtain the required anti-wear characteristics. These oils are also fortified with rust and oxidation inhibitors. They also have excellent good demulsibility and anti-foam characteristics. It meets requirements of IS 11656-1986 specification.

- **Typical Inspections of DIVYOL HLP Circulating Oils :-**

Characteristics	Test Methods	DIVYOL CIRCULATING OIL HLP				
		32	46	68	100	150
Appearance	Visual	Bright & Clear				
Density @15°C	D-1298	0.88	0.88	0.89	0.89	0.90
Colour Max.	D-1500	2	2	2	2	2.5
Flash Point COC°VC	D-92	196	200	204	210	210
Viscosity cSt @40°C	D-445	32	46	68	100	150
Viscosity Index	D-2270	95	95	95	90	90

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### DIVYOL ANTIWEAR CIRCULATING OILS

Divyol Antiwear Circulating Oils AW grades meeting ISO VG 1to 150 requirements are a blend of *high* viscosity index chemically stable base oils, and specially selected antiwear, anti-oxidation, antirust and anti-foam additives. These oils have good demulsibility characteristics and meet IS: 10522-1993 requirements.

• **Typical Inspections Of DIVYOL Circulating Oils :-**

Characteristics	Test Method	DIVYOL CIRCULATING OIL											
		AW 15	AW 22	AW 32	AW 37	AW 46	AW 57	AW 68	AW 100	AW 150	AW C220	AW 320	AW 460
Appearance	Visual	B R I G H T & C L E A R											
Colour	D 1500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2	3	4	5
Viscosity at 40°C cSt	D 445	15	22	32	37	46	57	68	100	150	227	320	455
Viscosity Index (min.)	D 2270	98	98	98	95	95	95	95	95	95	95	95	90
Flash Point COC°C (Min.)	D 92	160	160	195	195	205	205	215	215	215	230	230	230
TAN mg KOH/gm (Max.)	IS:1448 P:2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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## **REFINERY (I) LTD**

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### **DIVYOL R&O CIRCULATING OILS**

Divyol R&O Circulating Oils are manufactured from specially selected base oils duly fortified with adequate quantities of correct Oxidation and Rust Inhibitors (R&O) for use in enclosed systems. They have very good demulsibility and antifoam characteristics.

These oils are available in viscosity grades ranging from ISO VG 32 to ISO VG 460 and are used for circulating systems operating up to 1000 PSI. ISO VG grades 32, 46, 68, 100 and 150 meet IS 3098/83 specifications.

- TYPICAL INSPECTIONS OF DIVYOL CIRCULATING OILS :-**

Characteristics	Test Methods	DIVYOL CIRCULATING OIL								
		32	46	68	100	121	150	220	320	460
Appearance	Visual	Clear & Bright								
Colour	D-1500	1.5	1.5	2	2	2.5	2.5	3	3	3
Density @15°C	D-1298	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.92	0.92
Flash Point COC°C	D-92	190	190	190	200	200	200	200	203	205
Viscosity cSt @40°C	D-445	32	46	68	100	120	150	220	320	460
Viscosity Index	D-2270	95	95	95	95	90	90	90	90	90

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## **REFINERY (I) LTD**

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### **DIVYOL SPECIAL PURPOSE HYDRAULIC OILS**

Divyol special purpose hydraulic oils are very high viscosity index oils which passes excellent lubrication characteristics. These oils can be used for low temperatures operating conditions also.

These oils are blended with antiwear, antirust and anti oxidant additive to provide high performance. These oils are used for the hydraulic systems with very low clearance of matting parts to obtain high pressure and also reduce leakages. These products are suitable for modern hydraulic systems of excavators.

#### **Typical Inspection of DIVYOL Circulating Oils 46 HVI / 100 HVI:-**

<b>Characteristic</b>	<b>Test Method</b>	<b>Divyol Circulating Oil</b>	
		<b>46HVI</b>	<b>100HVI</b>
Viscosity @ 40 °C	D 445	46	100
Viscosity Index Min.	D 2270	135	120
Flash point Coc °C	D 92	190	200
Pour Point °C	D 97	(-)24	(-) 24

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## **REFINERY (I) LTD**

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### **DIVYOL HIGH SPEED MACHINERY LUBRICANTS**

Divyol High Speed Machinery Lubricants are manufactured from selected base oils which change less in terms of viscosity with temperature. These oils are fortified with additives to offer long service. However during their selection, care has been taken to ensure non-clogging of sintered bush bearings.

These lubricants are available in viscosity grades ISO VG 32/37/46/68/100/150. These meet IS 493 PTI/93 specifications.

- **Typical Inspections of DIVYOL High Speed Machinery Lubricants:-**

Characteristics	Test Methods	DIVYOL HYDRAULIC OILS					
		32	37	46	68	100	150
Appearance	Visual	Clear & Bright					
Density @15°C	D-1298	0.88	0.88	0.88	0.88	0.88	0.88
Colour	D-150	2	2	2	2	2.5	2.5
Flash Point COC°C	D-92	160	160	160	160	210	210
Viscosity cSt @40°C	D-445	32	37	46	68	105	152
Viscosity Index	D-2270	95	95	95	93	93	93
Copper Strip Corrosion @ 100°C/3 hrs.	D-130	Not worse than 1					

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## **REFINERY (I) LTD**

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### **DIVYOL SPINDLE OILS**

Divyol Spindle Oils have been developed to meet the requirements of high speed spindles of machine tools, plain and anti-friction bearings of textile spindles and other hydraulic applications of precision machines where a very light bodied oil is needed.

This oils are manufactured to meet requirements of IS 493-96 specification

- **Typical Inspections of DIVYOL Spindle Oils:-**

Characteristics	Test Method	DIVYOL SPINDLE OIL				
		5	10	12	15	22
Appearance	Visual	B R I G H T & C L E A R				
Density at 15°C	D 1298	0.85	0.85	0.87	0.88	0.88
Flash Point COC°C	D 92	130	144	150	150	180
Viscosity cSt at 40°C	D 445	5	10	12	15	22
Pour Point	D 97	(-)6	(-)6	(-)6	(-)3	(-)3

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## REFINERY (I) LTD

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### DIVYOL QUENCHING OILS

Divyol Quenching Oils 39 is general purpose quenching oil having low volatility and inherent oxidation stability.

Divyol Quenching Oils 42 is accelerated quenching oil with special polar additives to give higher hardness during prolonged service.

Divyol Quenching Oils 43 is an additive type Quenching Oil meets requirement of 2664/93. It has average Quenchometer results of 14 sec.

Divyol Quenching Oils 44 is an additive type Quenching Oil with higher viscosity. It meets requirements of IS 2664/93. It provides minimal distortion.

- **Typical Inspections of DIVYOL Quenching Oils:-**

Characteristics	Test Method	DIVYOL Quenching Oils			
		39	42	43	44
Appearance	Visual	Yellow	Bright & Clear		
Density @15°C	D-1292	0.880	0.880	0.880	0.880
Flash Point COC°C	D-92	200	195	185	200
Viscosity cSt @40°C	D-445	32	32	22	40
Viscosity Index		95	95	95	95

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### **DIVYOL WAY LUB OILS**

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Divyol Way Lub Oils are blended with polar additive to provide good adhesion and provide a good film to prevent stick and slip motion.

These oils are recommended for slideways of machine tools like lathe, milling, CNC machines, etc

- **Typical Inspections of DIVYOL Way Lub Oils:-**

Characteristics	Test Methods	DIVYOL WAY LUB OILS		
		68	100	220
Appearance	Visual	Bright & Clear		
Density @15°C	D-1298	0.89	0.90	0.91
Flash Point COC°C	D-92	172	190	190
Viscosity Cst @40°C	D-445	68	100	200

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## **REFINERY (I) LTD**

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### **DIVYOL FLUSHING OILS**

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**DIVYOL FLUSHING OIL** is recommended for Flushing equipments such as Engines, Gear Boxes, Circulation and Hydraulic systems. It is also recommended for flushing of newly installed equipments with an objective to remove metal chips, mill-scale, paint-flakes, sealing compounds and any other harmful foreign matter which may have got into the system during its erection/fitting.

It also helps in the removal of foreign matter and other contaminants from the enclosed systems so that the fresh oil charge life is not shortened.

- **Typical Inspections of DIVYOL Way Lub Oils:-**

<b>Characteristics</b>	<b>Test Methods</b>	<b>Results</b>
Appearance	Visual	Bright & Clear
Density @15°	D-1298	0.8708
Flash Point COC°C	D-92	140
Viscosity cSt @40°C	D-445	22

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## REFINERY (I) LTD

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### **DIVYOL GENERAL MACHINERY OILS**

**DIVYOL GENERAL MACHINERY OIL** is recommended for the application where there is no circulation of the oils and systems are running with all loss system. These oils are recommended to provide good lubricity, cooling and film strength. These oils are available up to the viscosity of VG 460

- **Typical Inspections of DIVYOL General Machinery Oils:-**

Characteristics	Test Methods	DIVYOL LUB OILS									
		10	32	46	68	100	150	220	320	460	
Appearance	Visual	--	Bright & Clear								
Odour	Smell	--	Acceptable								
Density @15°C	D-1298	0.87	0.88	0.88	0.88	0.88	0.89	0.89	0.90	0.90	
Flash Point COC °C	D-92	140	180	180	180	180	190	190	205	240	
Viscosity @40°C	D-445	10	33	46	69	102	156	210	320	460	

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## **REFINERY (I) LTD**

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### **DIVYOL INDUSTRIAL GEAR OILS**

**DIVYOL GEAR SP OILS** are premium quality lubricants fortified with sulphur-phosphorous type of EP additives. They have excellent anti-foam, anti-rust and anti-oxidation characteristics making them ideal for systems subjected to heavy shock loads. These offer adequate service even at temperatures up to 110 C and may also be used for spray lubrication systems requiring extreme pressure.

These contain chemically active additives which react with the metal of the gear teeth to form an anti-welding film between them. All these grades meet IS 8406/93 specifications.

- **Typical Inspections of DIVYOL Industrial Gear Oils:-**

<b>Characteristics</b>	<b>Test Methods</b>	<b>DIVYOL GEAR SP</b>						
		<b>68</b>	<b>100</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>	<b>680</b>
Colour	Visual	O P A Q U E						
Density @15°C	D-1298	0.88	0.89	0.89	0.89	0.90	0.91	0.92
Flash Point (COC)°C	D-92	200	205	205	210	210	220	240
Viscosity cSt @40°C	D-445	68	100	150	220	320	460	680
Copper Corrosion	D-130	Not Worse than No.1						

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## **REFINERY (I) LTD**

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### **DIVYOL CYLINDER OILS**

DIVYOL Cylinder Oils Steam engines are used as prime movers in some continuously operating factories where saturated or superheated steam is used. To avoid abnormal wear, the pistons, cylinders and valves of these steam engines need to be suitably lubricated so as to withstand the wet steam conditions and the elevated temperatures and pressures encountered therein.

The use of cylinder oils has been found most effective in these locations.

- **Typical Inspections of DIVYOL Cylinder Oils:-**

Characteristics	Test Methods	DIVYOL CYLINDER OIL						
		460	680	800	1000	EP 460	EP 530	EP 680
Appearance	Visual	OPAQUE						
Density @15°C	D-1298	0.89	0.93	0.94	0.89		0.89	0.93
Flash Point COC°C	D-92	220	220	220	280	220	220	220
Viscosity cSt @40°C	D-445	460	685	805	1000	460	530	685

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## REFINERY (I) LTD

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### **DIVYOL WIRE ROPE COMPOUNDS** (Bituminous EP Compounds)

DIVYOL Wire Rope Compounds are formulated by using special grades of bitumen with selected mineral oils and tackiness additives to obtain desired viscosities. These grades have excellent adhesive and mild extreme pressure properties, besides being water repellent and non-corrosive in nature.

These are available in 200 kgs, capacity M.S. barrels.

• **Typical Inspections of DIVYOL Wire Rope Compounds:-**

Properties	Test Methods	DIVYOL WIRE ROPE COMPOUNDS		
		R 1	R 2	R 3
Colour	Visual	Black	Black	Black
Kinematic Viscosity at 100°C, cSt	ASTM D 445	86 - 103	410 - 450	770 - 900
Flash Point (COC) °C Min.	ASTM D 92	250	280	280
Copper Strip Corrosion at 100°C 3 hrs. max.	ASTM D 130	1a	1a	1a
Four Ball Weld Load Test, kgs. Min.	ASTM D 2783	250	250	250

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## REFINERY (I) LTD

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### **DIVYOL SPARK EROSION OILS**

DIVYOL Spark Erosion Oils are highly refined mineral oils of narrow boiling range manufactured to meet the di-electric strength requirements of their end use.

#### **Major benefits offered:-**

1. Have good di-electric strength and are therefore safe to use.
2. Are non-corrosive and prolong the life of the electrode.
3. Have low surface tension and density allowing the eroded metal particles to be easily flushed out.
4. Are safer to use as these have high flash points.
5. Require least make up during use.

#### **• Typical Inspections of DIVYOL Spark Erosion Oils:-**

Characteristics	Test Methods	DIVYOL SPARK EROSION OILS		
		35	45	25
Appearance	Visual	Bright & Clear		
Specific Gravity @30°C	--	--	--	0.75
Density @15°C	D-1298	0.81	0.85	--
Flash Point (COC)°C	D-92	95	120	106
Pour Point °C	D-97	-5	-4	-9
Viscosity cSt @40°C	D-445	3.5	4.8	2.3
Copper Corrosion	D-130	< 1	< 1	< 1
Di-electric Strength	IS-6792	40	40	40

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### *DIVYOL HEAT TRANSFER FLUID*

DIVYOL Heat Transfer Fluid is manufactured from highly paraffinic oils having high viscosity index. These base stocks with exceptional oxidation stability have been found ideal for blending of heat transfer oils. These have high thermal conductivity and adequate specific heat to offer effective heat transfer.

Heat Transfer Fluid **500 & 600** has the correct viscosity for obtaining optimum heat transfer rates from well-designed systems. It also functions as a lubricant for the circulating pumps.

#### **Major benefits offered:-**

1. It reduces oil change periods because of its special formulation.
2. Its use reduces the frequency of make-up on account of its lower evaporation losses.
3. It develops the least amount of oxidation products during use.
4. Ensures lower power consumption due to its low viscosity and good pump ability

#### **• Typical Inspections of DIVYOL Heat Transfer Fluid:-**

Characteristics	Test Methods	DIVYOL HEAT TRANSFER FLUID	
		500	600
Appearance	Visual	Bright & Clear	
Density @15°C	D-1298	0.88	0.88
Flash Point (COC) °C	D-92	200	200 °C
Viscosity cSt @40°C	D-445	30	33
Viscosity Index	D-2270	95	95

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## REFINERY (I) LTD

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### **DIVYOL ANTIWEAR GEAR OILS**

**DIVYOL Antiwear Gear Oils** Multistage Spur Gear Boxes, Chain Drives and Machine Tool oiling systems having metallic moving parts are prone to wear. Considering the end use these systems need antirust, antiwear and antifoam type of lubricants for their effective lubrication.

**DIVYOL GEAR OIL ZN** grades have been specially formulated from highly refined high VI mineral type base stocks and selected additives keeping the end use in view. These can also be used for hydraulic systems.

#### **Major benefits offered:-**

- Rust Protection to system internals.
- Resistance to foaming to ensure trouble free functioning.
- Reduction in inventory as these can be used in various other locations.
- Longer life to gear boxes as compared to the use of circulating oils.

#### **Typical Inspections of DIVYOL Heat Transfer Fluid:-**

Characteristics	Test Method	DIVYOL GEAR OIL ZN					
		68	100	150	220	320	460
Appearance	Visual	⇐ <b>Bright and Clear</b> ⇒					
Colour	D 1500	2.5	3.0	3.0	3.5	4.5	5.5
Pour Point °C Typ.	-	-6	-6	-6	-6	-6	-6
Viscosity @40°C cSt (Typ.)	D 445	69	106	143	224	325	460
Viscosity Index Min.Typ	D 2270	90	90	90	90	90	90
Flash Point COC °C Min.	D 92	180	200	200	200	200	220

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## **REFINERY (I) LTD**

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### **DIVYOL SOLUBLE CUTTING OILS**

DIVYOL Soluble Cutting Oils are manufactured to meet IS Spec 1115-1986, Divyol cut 200 is recommended for use where water hardness up to 200 PPM. Divyol cut 400 is recommended for use where water hardness is up to 400 PPM. Divyol cut 800 is recommended for use where water hardness is up to 800PPM

#### **Major benefits offered:-**

1. Better Surface finish.
2. No deleterious effect on painted machine assemblies.
3. If the emulsion is of correct concentration, the use of inter process rust preventives could be avoided.
4. Considerable reduction frequency of tool grinding.

#### **• Typical Inspections of DIVYOL Soluble Cutting Oils:-**

Characteristics	Test Methods	DIVYOL SOLUBLE CUTTING OILS		
		200	400	800
Appearance	Visual	Bright & Clear		
Density @15°C	D-1298	0.897	0.895	0.982
Ash % Wt.	D 482	2.00	2.00	2.5
Copper Strip Corrosion	D 130	Passes	Passes	Passes
Cast Iron Corrosion	IP 125	Passes	Passes	Passes
Emulsion Stability & Frothing	D 1479	Passes	Passes	Passes

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# **gandharoil**

## **REFINERY (I) LTD**

**(An ISO 9001:2000 Certified)**

### **DIVYOL NON NITRITE SYNTHETIC COOLANTS (Heavy & Light)**

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DIVYOL Non Nitrite Synthetic Coolants is a synthetic coolant ideal for grinding operations. Mild EP properties help the product in providing superior surface finish where the mineral based products have been found wanting due to inadequate flushing. These oils provide better rust protection and very good flushing properties.

- **Typical Inspections of DIVYOL Synth Cut Heavy & Light:-**

Characteristics	DIVYOL SYNTH CUT	
	Heavy	Light
Appearance	Bright & Clear	
Odor	Pleasant	Pleasant
Specific Gravity @ 30°C	1.015	1.013
Sulphated Ash % Wt.	0.94	0.90
PH 3% Emulsion	8.7	8.5
CI Corrosion	Passes	Passes
CO	1 (a)	1(a)

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## **REFINERY (I) LTD**

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### **DIVYOL GLASS MOULD OILS**

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DIVYOL Glass Mould Oils are developed to provide mould releasing properties. These are manufactured from highly refined paraffinic oils contains minimum carbon. These are designed to provide better surface finish .Divyol glass mould oils are available in two different viscosities.

- **Typical Inspections of DIVYOL Glass Mould Oils:-**

Characteristics	Test Methods	DIVYOL SYNTH CUT	
		GM Super 50	GMC 50
Appearance	Visual	Bright & Clear	Bright & Clear
Density at 15°C	D 1298	0.881	0.850
Flash Point COC°C	D 92	190	140
Fire Point COC°C	D 92	210	152
Viscosity cSt at 40°C	D 445	20 cSt	12.1

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## **REFINERY (I) LTD**

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### **DIVYOL COMPRESSOR OILS**

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**DIVYOL COMPRESSOR OILS** are specially developed to provide satisfactory lubrication under prolonged high temperature and load conditions. These oils meet the requirement of DIN 51506 VD-L group specifications for air compressor oil. Divyol compressor oils are excellent cylinder lubricants for high performance reciprocating type compressor and can be used up to 200 °C air discharge temperature.

- **Typical Inspections of DIVYOL Compressor Oils:-**

Characteristics	Test Methods	DIVYOL COMPRESSOR OILS	
		Press 68	Press 100
Colour	Visual	Bright & Clear	Bright & Clear
Appearance	Visual	Transparent	Transparent
Density @ 15 °C	D-1298	0.879	0.880
Viscosity @ 40 °C	D-445	68	100
Flash Point °C col	D-92	200 °C	200 °C

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## REFINERY (I) LTD

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### **DIVYOL NON CORROSSIVE STRAIGHT CUTTING OILS**

**DIVYOL NON CORROSIVE STRAIGHT CUTTING OILS** are designed for non ferrous materials and does not contain any active sulphur. These oils are suitable for milling, turning, grinding and boring operations. These oils contain oiliness and chlorinated additives.

• **Typical Inspections of DIVYOL Non Corrosive Straight Cutting Oils:-**

<b>Characteristics</b>	<b>Test Method</b>	<b>10</b>	<b>25</b>	<b>35</b>
Appearance	Visual	<b>BRIGHT &amp; CLEAR</b>		
Density at 15°C	D 1298	0.86	0.90	0.90
Flash Point COC °C	D 92	150	140	160
Pour Point °C	D 97	+ 8	+ 8	+6
Viscosity cSt at 40°C	D 445	12.0	22/25	40/45
Saponifiable Matter	P-55 of IS:1448	Nil	10	10
Weld EP Load Kg	D 2783	350	400	126

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## **REFINERY (I) LTD**

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### **DIVYOL ACTIVE CUTTING OILS**

**DIVYOL ACTIVE CUTTING OILS** are the series of active type of straight cutting oils contains active sulphur and oiliness additive to impart better surface finish. These are recommended for turning, gear cutting, and various turning operations. Divyol st cut 52 is recommended for high speed operations where as st cut 54 can be used for normal operations.

- **Typical Inspections of DIVYOL Cutting Oils:-**

Characteristics	Test Methods	DIVYOL ST CUT OILS	
		St cut 52	St cut 54
Colour	D 1500	2.0	4.0 Max.
Appearance	Visual	Bright & Clear	
Density at 30°C	D 1298	0.87	0.88
Flash Point COC°C	D 92	165	180
Pour Point °C	D 1500	- 3	- 3
Viscosity cSt at 40°C	D 445	24.0	35
Copper Corrosion	D 130	4	4

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## REFINERY (I) LTD

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### **DIVYOL HONNING OILS**

DIVYOL HONNING OILS For finishing operations eg. Honing, Reaming or Lapping, low viscosity mineral based products are used as coolants. Whilst in case of Lapping the coolant acts as a carrier of fine emery powder, in Honing it cools the reciprocating grinding stones and helps achieve mirror surface finish by ensuring good heat transfer. The properties of products used in both these operations overlap and usually a multipurpose formulation is marketed to take care of these situations.

- **BENEFITS OFFERED:-**

1. Can be used for both ferrous and non-ferrous metal.
2. It is economical to use.
3. The desired surface finish is achieved.

- **TYPICAL INSPECTIONS OF DIVYOL HONE OIL :-**

Characteristics	Test Methods	Divyol hone oil 980	Divyol hone oil 981
Appearance	Visual	Bright & Clear	Bright & Clear
Colour	Visual	Red	Red
Density @15°C	D 1298	0.87	0.87
Flash Point COC°C	D 92	120	115
Pour Point °C	D 97	- 3	-- 3
Viscosity cSt @40°C	D 445	4.5	5.0
Polar Compounds (1%)	Present	Yes	Yes
Copper Strip Corrosion	IS 1448 P-16-1976	1A	1A
Acidity Mgms KOH/gm	IS 1448 P-2-1967	0.3	0.3

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## **REFINERY (I) LTD**

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### **DIVYOL WIRE DRAWING FLUIDS**

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**DIVYOL WIRE DRAWING FLUIDS** are fatty mineral oil based products that can withstand extreme pressures in forming, stamping and deep drawing of aluminium and its alloys. These products are not water soluble and have to be used neat. This may be applied by flooding, dipping or rolling on the parts depending on the method and equipment used for drawing.

#### **APPLICATION:-**

Wires are manufactured by a repetitive process of reduction in stages by drawing the metal rods through a range of dies of smaller and smaller openings. During the drawing process sufficient heat to make the material plastic is generated. This helps to elongate the wires reducing its diameter depending on the die opening. To reduce the die-wear because of excessive heat, the use of correct lubricant is resorted to. Its use not only enables the manufacture of smooth surfaced uniform diameter wires, but also enhances the die life.

**DIVYOL WIRE DRAWING FLUIDS** are available in the following grades.

- 1) DIVYOL WIRE DRAW 105 is recommended for general purpose light duty drawing operations of soft material.
- 2) DIVYOL WIRE DRAW 107 is designed for drawing of aluminium wire used in the manufacture of aluminium cables.

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## **REFINERY (I) LTD**

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### **DIVYOL WIRE DRAWING FLUIDS**

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- **Major benefits offered:-**

1. The surface is maintained bright and shining.
2. The die life is increased by their use.
3. They are economical to use.
4. They offer less friction and thereby save power.

- **Typical Inspections of DIVYOL Wire Drawing Fluids:-**

Characteristics		Test Methods	DIVYOL Wire Draw	
			105	107
Appearance		Visual	Bright & Clear	
Density @15°C	D-1298	0.900	0.910	0.900
Flash Point COC °C	D-92	210	200	210
Viscosity cSt @40°C	D-445	200	200	300
Saponification Value	D-94	19		19

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## REFINERY (I) LTD

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### DIVYOL EP GREASES

**DIVYOL EP GREASES** are lithium soap base greases, having extreme pressure additives for enhanced load bearing capacity. These greases have excellent water resistance properties, high oxidation stability, superior structural stability coupled with antirust and anticorrosion properties. **DIVYOL EP Greases** are friendly with grease dispersing systems including centralised lubrication systems.

#### APPLICATIONS & AVAILABILITY :

**DIVYOL EP Greases** are specially designed as multi functional extreme pressure greases for both anti-friction and plain bearing lubrication in steel plants, textile mills, paper mills, mining, heavy engineering plants, chemical plants, construction industries, etc. These greases are also ideal lubrication solutions for gear type flexible couplings under high loads. They meet IS:7623-1993 specifications are readily **available** in 182 Kgs. & 18 Kgs. packs to suit the requirements of our customers.

#### • TYPICAL INSPECTIONS OF DIVYOL EP-GREASES:

PROPERTIES	TEST METHODS	DIVYO L EP-00	DIVYOL EP-0	DIVYOL EP-1	DIVYOL EP-2
Colour	Visual	Dark Brown			
Base Soap	-	Lithium			
Structure	Feel	Smooth buttery			
Drop Point °C Min.	ASTM D 566	70	180	180	180
Worked Penetration 60 double strokes at 25°C	ASTM D 217	400-430	355-385	310-340	265-295
Four Ball Weld Load test kgs. Min.	ASTM D 2783	250	250	250	250
Copper Corrosion @ 100° C for 24 hrs. Max.	ASTM D 4048	1	1	1	1

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## REFINERY (I) LTD

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### DIVYOL DG-SET OILS

**DIVYOL DG SET OILS** are specially formulated from highly refined base stocks and proprietary additives to meet the exacting requirements of marine type engines. Their high TBN, excellent thermal stability, and excellent water separation characteristics make them highly effective for use in Diesel Sets coupled to power generators.

**DIVYOL DG Set 330** meets SAE 30 classification J300 Apr97 of Society of Automotive Engineers, U.S.A. It has a TBN of 30 and is designed for marine engines recommending this quality level.

**DIVYOL DG Set 340** also meets the above SAE30 specifications but has a higher TBN of 40.

**DIVYOL DG Set 430** also meets the earlier mentioned SAE 40 specifications but has a TBN of 30.

**DIVYOL DG Set 440** meets SAE 40 classification of Society of Automotive Engineers, U.S.A. and has a TBN of 40.

- TYPICAL INSPECTIONS OF DIVYOL DG SET OILS:**

DIVYOL DG SET OIL				
	330	340	430	440
Appearance	Bright & Clear			
Flash Point °C (COC)	220	220	230	210
Viscosity @100°C, cSt	11.5	11.5	14.5	14.5
TBN	30	41	30	41

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