



gandharoil

REFINERY (I) LTD

(An ISO 9001:2000 Certified)

PRODUCT CONTENTS WITH DESCRIPTION

DIVYOL MGA HD OILS

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DIVYOL GEAR SUPER OILS

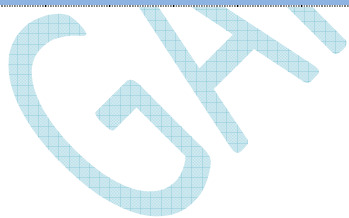
DIVYOL TRANSMISSION TQX

DIVYOL 2-STROKE ENGINE OILS

DIVYOL 4-STROKE 2 WHEELER ENGINE OILS

DIVYOL BRAKE FLUIDS

DIVYOL AIR DRILL OILS



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DIVYOL MGA HD OILS

DIVYOL MGA HD OILS are blended from selected base oils and a combination of additives to offer a superior performance. These oils have excellent oxidation and chemical stability needed for high temperature operation. These are dispersant/detergent oils that help clean the engine and keep the insolubles in suspension while functioning as a lubricant. They also have the necessary reserve alkalinity to withstand the corrosive effects of acids formed during combustion of the fuel. These are blended to meet MIL-L-2104-A specification.

TYPICAL INSPECTIONS OF MGA HD OILS:

Characteristics	Test Methods	D I V Y O L M G A O I L S	
		HD 30	HD 40
Appearance	Visual	B r i g h t & C l e a r	
Density at 15°C	D 1298	0.894	0.898
Flash Point COC°C	D 92	215	220
Viscosity cSt at 100°C	D 445	10.5	13.5
Viscosity Index	D 2270	95	92

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DIVYOL SUPER LUB HD OILS

DIVYOL SUPER LUB HD OILS are high quality heavy duty mono grade engine oils formulated to give good petrol engine performance to the API SC level and diesel engine performance to the API CC level. These oils meet the requirements of U.S.Military specification MIL-L-2104 B, equivalent to IS :13656 E-PL1/E-DL1. These are blended from high viscosity index base oils of premium quality which refortified with adequate dosage of detergent dispersant additives.

DIVYOL SUPER LUB HD OILS are available as mono grade oils ranging from SAE 30 AND 40 viscosity classifications.

Major benefits offered:-

1. Keep the engine clean.
2. Inhibit sludge formations.
3. Same oil can be used for both petrol and diesel engines.

TYPICAL INSPECTIONS OF SUPER LUB HD OILS:

Characteristics	Test Methods	DIVYOL SUPER LUB HD	
		30	40
Appearance	Visual	Bright & Clear	
Density at 15 °C	D 1298	0.892	0.896
Flash Point °COC C	D 92	215	215
Pour Point °C	D 97	- 6	- 6
Viscosity cSt at 100° C	D 445	11	14
Viscosity Index	D 2270	96	93

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DIVYOL SUPER LUB OILS (HD 20W40)

DIVYOL MULTIGRADE OILS are heavy duty multigrade oils of high viscosity index suitable for use in both summer and winter seasons. These can be used in place of SAE 30, SAE 40 and mono-grades.

Major benefits offered:-

1. Provide easy starting.
2. Reduce friction and power-loss.
3. Offers longer service life.

• **TYPICAL INSPECTIONS OF DIVYOL SUPER LUB MULTI GRADE :-**

Characteristics	Test Methods	DIVYOL SUPER LUB HD 20W-40
Appearance	Visual	Bright & Clear
Density at 15 C	D 1298	0.886
Pour Point C	D 97	-21
Flash Point C	D 92	200
Viscosity cSt @100 C	D 445	16

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DIVYOL SUPER MILLCY OILS

DIVYOL SUPER MILLCY O I L S are high performance heavy duty engine oils manufactured from high quality solvent extracted paraffinic base oils.

These oils are recommended for applications requiring a MIL-L-2104 C quality oil equivalent to IS: 13656 E-DL3 specification. It also gives good diesel engine performance expected of an API CD level oil. This high level of detergency makes them suitable for use in diesel engines fitted to off-highway equipment.

DIVYOL SUPER MILLCY OILS are available as mono grade oils in viscosity classification , SAE 30, SAE 40

Major benefits offered:-

1. Extend oil drain intervals& Reduce corrosive wear with high sulphur fuels.
2. Control deposits.

• **TYPICAL INSPECTIONS OF DIVYOL SUPER MILLCY OILS :-**

Characteristics	Test Methods	DIVYOL SUPER MILLCY	
		30	40
Appearance	Visual	Bright & Clear	
Density 15°C	D 1298	0.894	0.898
Flash Point COC °C	D 92	220	225
Pour Point °C	D 97	-6	-6
Viscosity cSt at 100 °C	D 445	11	14
Viscosity Index	D 2270	96	93

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DIVYOL MCF/MCG/MCH SUPER 15W40

DIVYOL SUPER 15W40 is a top tier multi grade diesel engine crankcase oil manufactured from premium quality virgin base stock. It is fortified with a shear stable viscosity index improver, and high performance engine oil additives. It also contains a special additive to retard soot induced oil thickening, particularly for engines emitting black exhaust smoke. As a result, oil in service does not thicken much while the engine runs over a longer period.

Engine manufacturers like :-TELCO, Caterpillar, Cummins, Volvo, Mack, Isuzu and Ford etc., insist on using only API CF-4/CG-4CH-4 rated oils viz **DIVYOL MCF/MCG/MCH SUPER 15W-40**.

Major benefits offered:-

1. Prevents carbon built-up engine components & Reduces engine scuffing and bore polishing.
2. Retards soot induced oil thickening.
3. Extends drain service interval.
4. Holds higher quantities of insoluble insuspensions.
5. Reduces oil and fuel consumption & extends engine rebuild life.

• Typical inspections characteristics of DIVYOL MCF SUPER 15W-40 :-

TEST Method	RESULT
Appearance	Bright & Clear
Kinematic Viscosity cSt at 100°C	13.0 - 15.0
Viscosity Index, min.	135
Flash Point (COC), °C min.	200
Pour Point, °C max.	(-) 24
TBN, Mg/KOH/gm	10 min.
Sulphated Ash % mass	1.5 max.

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DIVYOL GEAR EP OILS

DIVYOL GEAR EP OILS are heavy duty type multipurpose gear oils formulated to give good oxidation stability for long service life. They contain EP additives that withstand high temperature and pour depressants that prevent the lubricant from channeling at low temperatures. These oils can be used in equipments where an API GL4 lubricant is recommended.

Major benefits offered:-

1. Long service life.
2. Do not corrode yellow metals.

SAE Viscosity Grade	Viscosity cSt @100°C	Max Temp °C for Viscosity of 150000 cp
80W	7.0 mm	(-) 26
90	13.5 to less than 24.0	--
140	24.0 to less than 41.0	--

• TYPICAL INSPECTIONS OF DIVYOL GEAR EP OILS :-

Characteristics	Test Methods	DIVYOL GEAR	
		EP 90	EP 140
Appearance	Visual	Bright & Clear	
Density @15°C	D-1298	0.888	0.896
Pour Point °C	D-97	- 3	- 3
Flash Point COC °C	D-92	180	190
Viscosity cSt @100°C	D-445	17	30
Viscosity Index	D-2270	94	92

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DIVYOL GEAR SUPER OILS

DIVYOL GEAR SUPER OILS are blended from highly refined base oils specially selected for their thermal and oxidation stability with extreme pressure additives that withstand thermal degradation at high temperatures. This combination make them excellent heavy duty gear lubricants that can provide an effective lubricating film under high pressures and severe shock loads.

The Society of Automative Engineers (SAE) classifies automative gear box oils for use in main gear boxes and differential gears of automotive vehicles by designating grade numbers to them. The axle and manual transmission lubricant viscosity classification SAE J306 March 85 for the three grades are as follows :-

SAE Viscosity Grade	Viscosity cSt @100°C	Max Temp °C for Viscosity of 150000 cp
80W	7.0 mm	(-) 26
90	13.5 to less than 24.0	--
140	24.0 to less than 41.0	--

Besides meeting the physical requirements of the above mentioned SAE grades also perform with satisfaction in bevel and helical gears fitted in gear boxes and spiral bevel and hypoid gear in rear axles of automobiles. These oils can be used in equipments where an oil meeting IS: 1118/92 or an API GL5 lubricant is recommended.

Major benefits offered:-

1. Offer excellent performance through out their life.

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DIVYOL GEAR SUPER OILS

2. Reduce wear of gear trains.
3. Provide protection to Gear box internals.

• **TYPICAL INSPECTIONS OF DIVYOL GEAR SUPER OILS :**

Characteristics	Test Methods	DIVYOL GEAR SUPER OILS	
		90	140
Appearance	Visual	BRIGHT & CLEAR	
Density at 15°C	D 1298	0.890	0.896
Pour Point °C	D 97	-3	-3
Flash Point COC°C	D 92	175	180
Viscosity cSt at 100°C	D 445	17	30
Viscosity Index	D 2270	94	92

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DIVYOL TRANSMISSION TQX

DIVYOL TRANSMISSION is formulated to meet the General Motors Automatic Transmission Fluid Type a Suffix a (TASA) specifications as well as DEXRON - II, ALLISON C3, DAIMLER-BENZ sheet 6623.10, and Caterpillar TO-2 requirements for synchromesh transmissions and power steering pumps.

These oils are blended from high quality solvent extracted base oils together with multi-functional additives to impart anti-oxidation, anti-wear, dispersancy, defoaming and desired friction characteristics. Due to its high viscosity and low pour point, it assures quiet and smooth operation of hydraulic equipments under all climatic conditions. It is a fluid with low co-efficient of friction, thus permitting clutch plates to engage slowly and gradually as the transmission shifts. It is dyed RED to distinguish it from other Crank case oils should leakage occur.

DIVYOL TRANSMISSION is specially recommended for usage in Power steering units (ZF, RANE, ETC.) where the manufacturers specified TASA fluid.

Synchromesh gear box assembly of BAJAJ TEMPO / TRAX TRAVELLER /R-307/R-407; TELCO G-16/G-76 (207 family) etc.

Automatic transmission of automobiles and light commercial vehicles manufacturers specify TASA fluid.

Major benefits offered:-

1. Provides smooth, chatter-free, clutch engagement.
2. Ensures long trouble-free life of gears, bearings and other lubricated parts.

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DIVYOL TRANSMISSION TQX

3. Reduced tendency to foam.
4. Offers smooth operation over a wide range of ambient temperatures because of its fluid characteristics.
5. Helps to maintain the system clean.
6. Offers protection against rusting even during idle periods.

TYPICAL INSPECTIONS OF DIVYOL TRANSMISSION :-

Characteristics	DIVYOL TRANSMISSION TQX
Colour	Red
Kinematic Viscosity @100°C	7.9
Viscosity Index (minimum)	168
Flash Point (COC)°C	190
Pour Point (maximum)	-44

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DIVYOL TWO- STROKE ENGINE OILS

DIVYOLTWO STROKE ENGINE OILS are formulated keeping in mind the discerning user. These can be used for Mopeds, Scooters and Motor Cycles with oil injection or petrol systems. These are also suitable for pump sets, lawn movers and small generators fitted with two stroke petrol engines.

is a neat oil blended from specially selected base stocks that give minimum ash. It does not contain any additives that would leave metallic deposits. It gives superior performance as compared to the detergent /dispersant type of neat engine oils mostly used in two and three wheelers.

MAJOR BENEFITS OFFERED:-

1. Reduce spark plug fouling.
2. Ensure negligible carbon and ash deposits.
3. Reduce wear and increases engine life.

TYPICAL INSPECTION OF DIVYOL TWO STROKE ENGINE OILS

Characteristics	Test Methods	2T Oil	2T Oil Special	2T Oil Special Self Mixing
Density at 15°C	D 1298	0.9	0.92	0.875
Appearance	Visual	Bright & Clear		
Flash Point COC°C	D 92	180	180	95
Viscosity cSt @40°C	D 445	100	145	52
Sulphated Ash %Wt.	D 874	Nil	NIL	NIL

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DIVYOL FOUR- STROKE 2-WHEELER ENGINE OILS

DIVYOL FOUR STROKE ENGINE OILS Two wheelers fitted with 4 stroke engines use specially formulated engine oil meeting API SF specifications with added qualities to meet the requirements of clutch and transmission systems. JASO M 348-95 test is used to evaluate satisfactory transmission torque performance in a clutch friction test machine. The friction properties of the oil are thus of paramount importance.

DIVYOL HILUB 4T SAE 20W-40 is designed to meet JASO T-903 performance classification MA and is in line with Japan Lubricating Oil Society (JALOS). It can be used in extreme cold to hot conditions. This, all the year grade helps in easy starting of engines and is popular in sub-zero temperatures. Its extra high VI helps control engine wear and oil consumption, usually faced with monogrades.

Major benefits offered:-

1. Low oil consumption./Long Engine Life/Easy Starting
2. Long engine life.

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DIVYOL FOUR- STROKE 2-WHEELER ENGINE OILS

3. Easy starting.

•Typical Inspections of DIVYOL HILUB 4T SAE 20W-40 :

Characteristics	Test Method	Results
Appearance	Visual	Bright & Clear
Flash Point (COC)°C	D-92	230
Kinematic Viscosity @40°C, cSt	D445	131
Kinematic Viscosity @100°C, cSt	D-445	14.2
Viscosity Index	D-2270	107
TBN mgm KOH/gm	D-2896	5.0
Foaming Tendency	D-892	
1. Sequence – I		Nil
2. Sequence – II		Nil
3. Sequence – III		Nil

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DIVYOL BRAKE FLUID

DIVYOL BRAKE FLUID Brakes are a critical component of any vehicle. Hydraulic braking systems are standard equipment on automotive vehicles. By pressing the brake pedal, the brake fluid is pumped from the master cylinder or reservoir to actuate individual pistons which force the friction-shoes onto the brake surfaces of rotating wheels. These surfaces could be in the form of a drum or a disc. On release of the foot from the pedal the oil returns back to the reservoir releasing the pressure between the brake shoe and the brake drum/disc.

DIVYOL BRAKE FLUID is a specially formulated Hydraulic Brake Fluid for use in all types of automotive vehicles fitted with either the drum or disc brakes. It is designed to withstand the high operating temperatures created by sudden and repetitive braking.

DIVYOL BRAKE FLUID is recommended at locations where a Heavy Duty brake fluid meeting IS:8654-1986 is envisaged. It also meets the U.S. Deptt. of Transportation's requirements popularly pronounced as Dot-3. **DIVYOL BRAKE FLUID** has very good fluidity at low temperatures, good corrosion resistance and excellent chemical stability.

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DIVYOL BRAKE FLUID

• **MAJOR BENEFITS OFFERED:**

1. Its use enhances life of the rubber parts.
2. It provides protection to the system internals.
3. Vapour lock problems associated with high temperature conditions are eliminated.

Typical Inspections of DIVYOL BRAKE FLUID

Characteristics	Test Methods	Results
Appearance	Visual	Red
Viscosity cSt @100°C	D-445	1.5
Viscosity cSt @-40°C	D-445	1800 max
Equilibrium Reflux Boiling Point °C	IS-8654 Appendix A-2	210
Effect on Rubber	Swell Test	Passes

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DIVYOL AIR DRILL OILS

DIVYOL Air Drill Oils are formulated to obtain good chemical stability to prevent oxidation and deposit formation, to have low pour point for easy flowability and high film strength for protection against wear. Special additives are used in their formulation to provide maximum resistance to water washing, good lubricity at high operating speeds and impact resistance to shock loading.

Available in 3 grades

- **DIVYOL AIR DRILL OIL No.1** is recommended for use in air tools where the prime mover is an air turbine.
- **DIVYOL AIR DRILL OIL No.2** is recommended for use at locations where gear boxes are incorporated in the air tool.
- **DIVYOL AIR DRILL OIL No.3** is recommended for reciprocating type of air tools with high impact loading

Major benefits offered:-

1. They increase machine life by inhibiting mechanical wear.
2. They prevent rusting of the machine internals.
3. Ideal for use in confined places because of their acceptable odour.

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

Characteristics	Test Methods	DIVYOL AIR DRILL OILS		
		1	2	3
Appearance	Visual	Bright & Clear		
Density @15°C	D-1298	0.885	0.89	0.895
Flash Point COC°C	D-92	150	155	170
Viscosity cSt @40°C	D-445	40	100	220
Foaming Characteristics	D-892	Passes		
Rust Test	D-665	Passes		

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