Performance Par Excellence





Cylinder Oils





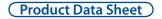




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CYLINDER OILS

The dream oil for steam engines

Divyol Cylinder Oil 460 is normally recommended for condensing type of steam engines using low temperature steam. Divyol Cylinder Oil 680 is recommended for steam engines using mildly superheated steam and where the steam condensate has to be reused. Divyol Cylinder Oil EP 460 is normally recommended for non-condensing type of steam engines using wet steam. Divyol Cylinder Oil EP 680 is the cylinder lubricant recommended for steam engines using saturated steam where the steam condensate is not reused or used in-process.







DIVYOL CYLINDER OILS 460 L / 680 L / EP460 D / EP680 D

Applications:

Divyol Cylinder Oils are a series of extra high performance, high viscosity oil blends specially formulated for use in enclosed worm gears operating in conditions ranging from moderate speeds and high temperatures to wherever heavy loads, slow speeds or high temperatures require high viscosity oils. These cylinder lubricants are also intended for use in all steam engine applications.

Divyol Cylinder Oil 460 L is recommended for condensing type of steam engines using low temperature steam.

Divyol Cylinder Oil 680 L is recommended for steam engines using mildly superheated steam and where the steam condensate has to be reused.

Divyol Cylinder Oil EP 460 D is recommended for non-condensing type of steam engines using wet steam.

Divyol Cylinder Oil EP 680 D is recommended for steam engines using saturated steam where the steam condensate is not reused or used in process.

Advantages:

Divyol Cylinder Oils' unique formulation includes high quality base stocks that give your machines/equipment stronger resistance to oxidation, thermal degradation and the build-up of harmful deposits caused by the high operating temperatures in steam cylinders. The combination of anti-wear and low-friction properties means effective protection against rust and corrosion, good film strength, excellent lubricity and greater resistance to water washout. It establishes a good sealing film around rods and in glands in steam applications and facilitates very good water separation. It proves its worth especially in severe operating conditions and variable load conditions by helping to avoid unexpected downtime and equipment replacement. It all adds up to lower maintenance costs and greater productivity.

Typical properties:

Sr.	Characteristics	Test Method	Divyol Cylinder Oils			
No.			460L	680 L	460 D	680 D
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear	Bright and clear
2	Colour, max.	ASTM D 1500	4.5	5.5	Dark brownish	Dark brownish
3	Flash point, COC °C, min.	ASTM D 92	220	220	220	220
4	Kinematic viscosity, at 40°C, cSt, min.	ASTM D 445	460	685	460	685
5	Pour point, °C, max.	ASTM D 97	-3	-3	-3	-3
6	Viscosity index, min.	ASTM D 2270	90	85	90	85
7	Copper strips corrosion, 3 hrs. at 100 °C	ASTM D 130	1b	1b	1b	1b

The above properties are typical values and do not constitute specification of the product.

Disclaimer: Gandhar makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the product for the application contemplated by the users is solely their responsibility.







DIVYOL CYLINDER OIL BDE 402 X

Applications:

Divyol Cylinder Oil BDE 402 X is an extra-high performance, high viscosity cylinder oil designed for use in enclosed worm gears in moderate to severe operating conditions, such as heavy loads, slow speeds or high temperatures and wherever high viscosity oils would be required. It is also intended for use in all steam engine applications. It is widely used in couplings and bearings with viscosity grade depending on operating conditions in steam engine applications. It is recommended for saturated and superheated steam up to 260°C. It can be applied both by drip feed cups and force feed mechanical lubricating devices.

Standards:

Divyol Cylinder Oil BDE 402 X is formulated with high quality base stocks that provide greater resistance to oxidation, thermal degradation and excessive build-up of harmful deposits caused by the high operating temperatures of steam cylinders. The blend includes special additives that enhance the frictional and load carrying properties of the machine. The product conforms to IPSS 1-09-010 specifications.

Advantages:

Divyol Cylinder Oil BDE 402 X possesses excellent anti-wear and low friction properties. The combination means effective protection against rust and corrosion, good film strength, excellent lubricity and greater resistance to water washout. It establishes a good sealing film around rods and in glands in steam applications and facilitates very good water separation in absence of additives. It proves its mettle especially in severe operating conditions and variable load conditions by helping to avoid unexpected downtime and equipment replacement. These benefits sum up into fewer unplanned stoppages, reduced maintenance costs and therefore greater productivity.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Cylinder Oil BDE 402 X
1	Appearance	Visual	Bright and clear
2	Colour	ASTM D 1500	Dark greenish brownish
3	Flash point, COC °C, min.	ASTM D 92	230
4	Kinematic viscosity, at 100 °C, cSt, min.	ASTM D 445	12.50 – 16.30
5	Viscosity index, min.	ASTM D 2270	120
6	TBN, mg KOH/g of oil, min.	ASTM D 2896	18
7	HTHS at 150°C, min.	ASTYM D 4683	3.7
8	Pour point, °C, max.	ASTM D 97	-9
9	Copper strip corrosion, 3 hrs. 100 °C	ASTM D 130	1b
10	Saponification value	-	10 – 12

The above properties are typical values and do not constitute specification of the product.

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Gandhar Oil Refinery (India) Limited

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, GMP Certified, NABL Accreditation and Government Recognized Three Start Export House

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Plants

Taloja | Silvassa | Sharjah July 2021