



Product Data

Castrol Tribol® 1066 Way Oil

Description

Castrol Tribol 1066 Way Oil is a high performance slide and way lubricant. Tribol 1066 Way Oil was developed specifically to lubricate the slides and ways of modern metalworking machine tools used in high precision, high volume manufacturing.

Demands for increased production have led to the design of higher and higher speed machines. Increased operating speeds have also spawned new metal removal fluids and coolants which are highly surface active to increase the speed of tool wetting and the removal of heat.

The surfactant additives used in these modern coolants have a detergent and cleansing action on oil and can rapidly displace lubricants used to protect slides and ways.

Tribol 1066 Way Oil is manufactured with the highest quality base oils and additives available. The base oils are highly refined paraffinic base stocks with high Vis. They were selected for their ability to sustain a lubricating film despite sudden changes in load or shearing forces. The formulation includes select polymer additives for both adhesive and cohesive characteristics.

A carefully balanced treat rate of rust and oxidation inhibitors offers maximum rust protection for parts and long service life from the oil. Tribol 1066 Way Oil is not corrosive to ferrous or nonferrous metals.

Application

Tribol 1066 Way Oil was developed primarily to lubricate modern machine tools. The special formulation of Tribol 1066 Way Oil resists the cleansing action of surface-active coolants so that wear on the slides and ways is minimized and motion is smooth and accurate. Interaction between the metalworking fluid and slideway lubricant can result in lower metalworking fluid performance and reduced fluid life. Tribol 1066 Way Oil was specifically developed to be non-emulsifying with water, synthetic and semi-synthetic metal removal fluids. It rapidly pops out of these fluids as free tramp oil without removal of the fluid's additives. This is achieved without the use of demulsifiers or surfactants that can affect the stability of the coolants. This permits servicing of the metal removal fluids using conventional weiring or skimming techniques. With the Tribol 1066 Way Oil, positive lubrication can be achieved to control wear and promote machining accuracy without excessive reapplication or high lubricant consumption.

Advantages

- Tribol 1066 Way Oil effectively controls "stick-slip," resulting in higher quality output, fewer rejects and reduced operating costs.
- Tribol 1066 Way Oil is compatible with both metal and plastic materials used on modern machining equipment.
- Outstanding demulsification properties with quality aqueous cutting fluids prolongs coolant life for additional cost savings

Characteristics

	1066/68	1066/220
Specific Gravity, ASTM D 1298, @ 15.6°C/60°F	0.88	0.87
Viscosity, ASTM D 445, D 2161:	-	-
@ 40°C, mm ² /scc	68	233
@100°C, mm ² /scc	8.97	20.9
Viscosity Index, ASTM D-2270	106	106
Flash Point, ASTM D 92, COC, °C/°F	450	450
Copper Corrosion ASTM D 130, 3 hrs, 100°C	1a	1a
Four Ball Extreme Pressure Test, ASTM D 2783,	-	-
Weld Load, kg	200	200

Falex Wear Test, ASTM D 2670, wear teeth	5	5
Falex Extreme Pressure Test, ASTM D 3233-B, lbs	1750	1750
Timken Extreme Pressure Test, ASTM D 2782,	-	-
OK Load, lbs	65	65
Four Ball Wear	-	-
(1800 rpm, 40 kg, 75°C)	0.40 mm	0.40 mm
Cincinnati Milacron	-	-
(CMI Ref. #9906030)	P-47	-
(CMI Ref. #9511024)	-	P-50

Subject to Usual Manufacturing Tolerances.

User advice

Notes

For specific terms, conditions, warranty and availability, refer to the Castrol Performance Lubricants' Price List in effect at time of purchase.

Castrol Tribol 1066
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Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563
Tel: (877) 641 1600 Fax: (877) 648 9801

www.castrol.com/industrial