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TARMOND

Since 1981

TARMOND HEAVYGEAR EP SERIES

INDUSTRIAL GEAR OILS

Product Description:

TARMOND Heavygear EP Series a premium quality, lead free, extreme pressure gear oils having outstanding extreme pressure characteristics and load-carrying properties. It is intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. They are also suitable as a bearing oil for highly loaded plain bearings. TARMOND Heavygear EP Series have excellent anti-wear and anti-friction properties and high oxidation stability. These industrial gear oils exceed the industry requirement for bearing wear protection by the industry standard FAG FE 8 test. Having compatibility with common gearbox seal materials, it also performs very good anti-corrosion properties.

Applications:

TARMOND HeavyGear EP Series has been developed for use in a wide range of industrial and marine applications as well as paper, textile and cement industries. It is recomended for the lubrication of all types of enclosed gear drives with circulation or splash lubrication systems including of helical, spur, worm gears and heavy loaded bearings subject to heavy and shock loads.

Benefits:

TARMOND Heavygear EP Series offer the following benefits:

High anti-wear protection of gears and bearings, protecting against micropitting,

High resistance to sludge formation leads to outstanding system cleanliness,

Very good oxidation resistance for longer oil drain intervals,

Very good demulsibility to ease water removal,

High seal compatibility

Meets Performance: API GL-4, DIN 51517 Part 3, US Steel 224, ISO 12925-1, Cincinnati Machine P34/35/59/63/74

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Technical Data:

TARMOND HEAVYGEAR EP series	Test method							
SAE Grade		**68**	**100**	**150**	**220**	**320**	**460**	**680**
Density at 15°C gr/cm³	ASTM D 1298	0,88	0,88	0,885	0,89	0, 9	0,9	0,91
Viscosity at 40°C cSt	ASTM D 445	68	100	150	220	320	460	680
Viscosity Index	ASTM D 2270	100	95	95	95	95	95	90
Flash point °C	ASTM D 92	220	230	230	235	240	240	240
Pour point °C	ASTM D 97	-24	-24	-24	-18	-18	-12	-9
TIMKEN OK Load lbs	ASTM D 2782	65	65	65	65	65	65	65
4 Ball EP Weld, kg LWI, kg	 ASTM D 2783 ASTM D 2783	 200 45	 200 45	 250 45	 250 45	 250 45	 250 45	 250 45
4 Ball WEAR 54°C/1800 rpm/20 kg/1h Scar diameter, mm	ASTM D 2286	0,33	0,33	0,33	0,33	0,33	0,33	0,33
FZG A/8.3/90 Fail Load Stage, min.		12th stage Pass	12th stage Pass	12th stage Pass	12th stage Pass	12th stage Pass	12th stage Pass	12th stage Pass
Demulsibility Modified for 90 ml Water % Water in Oil, max Total Free water, ml, min. Emulsion, ml, max	ASTM D 2711	 1.5 84 0.8	 1.5 84 0.8	 1.5 84 0.8	 1.5 84 0.8	 1.5 84 0.8	 1.5 84 0.8	 1.5 84 0.8
Water Separability: @ 54°C @ 82°C	ASTM D 1401	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]	 40/37/3[15] 40/38/2[5]
Copper Strip 3hours/100°C, max	ASTM D 130	 1B	 1B	 1B	 1B	 1B	 1B	 1B
Rust a] Dist. Water b] Synthetic Sea Water	ASTM D665, IP-135]	 Pass Pass	 Pass Pass	 Pass Pass	 Pass Pass	 Pass Pass	 Pass Pass	 Pass Pass
Foam Tendency/Stability Sequence I Sequence II Sequence III	ASTM D 892,IP-146	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0
Oxidation 121°C/312 hours/10L Air/Hour] % Viscosity Increase, max	ASTM D 2893B/ US Steel S-200	 4.2	 4.2	 4.2	 4.2	 4.2	 4.2	 4.2
FAG FE8 Bearing Wear W50 Weight Loss on the Rollers		 21.3 mg	 21.3 mg	 21.3 mg	 21.3 mg	 21.3 mg	 21.3 mg	 21.3 mg
SEAL TEST 7 days at 100°C using SRENBR 28 Volume Change % Shore A Hardness Change% Tensile Strength % Rupture Elongation %	DIN 51517 PART 3	 4.5 -3 17 23	 4.5 -3 17 23	 4.5 -3 17 23	 4.5 -3 17 23	 4.5 -3 17 23	 4.5 -3 17 23	 4.5 -3 17 23