

Poweroil TO 1020 (60U)

Uninhibited Transformer Oil

Poweroil TO 1020 (60U) is uninhibited transformer oil meeting the IEC 60296: 2012 – 02 Edition 4.0 Standard Specification, Eskom specification 32-406, Eskom specification 240-75661431 and SANS 555:2007 specifications. It also meets ASTM D1275B (Doble's modified) Test requirement for corrosive sulphur.

Characteristic	Unit	Test Method	Guaranteed Data	
			Min.	Max.
1 Appearance		Visual inspection of oil sample in transmitted light under a thickness of 10cm at ambient temperature.	Clear free from sediment and suspended matter.	
2 Density at 20°C	G/ml	ISO 3675 or IEC 12185		0.895
3 Kinematic Viscosity at 40°C at -30°C	mm ² /sec	ISO 3104		12 1800
4 Flash Point, PMCC	°C	ISO 2179	135	
5 Pour Point	°C	ISO 3016		-40
6 Inter Facial Tension	mN/m	ISO 6295 (where it is used as a general requirement).	No general requirement (min 40)	
7 Acidity	mg KOH/gm	IEC 62021-1		0.01
8 Water Content at filling	mg/kg	IEC 60814		10
9 Breakdown Voltage at filling	kV	IEC 60156	70	
10 Dielectric Dissipation Factor (Tan d) at 90°C & 40 to 60Hz		IEC 60247 or IEC 61620		0.005
11 Corrosive Sulphur a. Silver strip, 100°C, 18 Hrs b. Copper strip, 150°C, 48 Hrs		DIN 51353 ASTM D 1275 B	Non Corrosive Non Corrosive	
12 Potentially Corrosive Sulphur		IEC 62535	Not corrosive	
13 DBDS	mg/kg	IEC62697-1 (in preparation)	Not detectable	
14 Antioxidant Additive	%	IEC 60666	(U) Uninhibited Oil– Not detectable	
Oxidation Stability At 120°C, (U) -164 Hrs		IEC 61125 Method C		
Total Acidity	mg KOH / gm			1.2
Sludge	%			0.8
15 DDF at 90°C		IEC 60247		0.500
16 Gassing Tendency	µ L min	IEC 60628, A	No general requirement	
17 PCA Content	%	BS 2000 Part 346		3
18 PCB Content	mg kg /gm	IEC 61619	Not detectable	
19 2-Furfural Content	Mg / kg	IEC 61198	Not detectable	

08.2015

Due to continual product research and development, the information contained herein is subject to change without notification. Refer to the Material Safety Data Sheet (MSDS) for information on the safe handling and use of this product.

Engen Petroleum Ltd | Tel: 08600 36436 | Website: www.engenoil.com | Email: 1call@engenoil.com