

789

Syn-O-Gen

Synthetic Anti-Wear (AW) Hydraulic Oil

DESCRIPTION:

789 Syn-O-Gen AW Hydraulic Oil is a 100% pure synthetic PAO performance industrial anti-wear hydraulic oil. No. 789 is suited to function as a high demanding hydraulic oil, especially in very low or high temperature applications.

COMPOSITION:

789 Syn-O-Gen AW Hydraulic Oil was carefully formulated with 100% pure synthetic poly-alpha-olefin (PAO) base-stocks. No. 789 is coupled with a balanced additive system, which provides extreme anti-wear protection and film strengtheners, and 789 Syn-O-Gen AW Hydraulic Fluid contains, rust, corrosion, oxidation and foam inhibitors.

PERFORMANCE CHARACTERISTICS:

With a good viscosity index, very low pour point, exceptional hydrolytic stability/demulsibility effectiveness, extreme scuffing and anti-wear protection, superior yellow metal corrosion protection, and high oxidative and thermal stability, 789 Syn-O-Gen has a much wider operating temperature range and provides extremely more protection for your equipment than conventional lubricants.

In addition to the above, the extreme cold properties and high thermal stability allow 789 Syn-O-Gen to last many times longer than conventional lubricants. 789 Syn-O-Gen can even operate at excessively hot and cold temperatures where conventional lubricants fail.

USES:

789 Syn-O-Gen is Suitable for Use (SFU) in the following specifications and meets and exceeds many of the following manufacturers' hydraulic oil requirements:

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| ■ AFNOR: E 48-603/NFE 48-690/NFE 48-691 | ■ GM LS-2 |
| ■ AIST 126, 127 | ■ ISO 11158 (HM) |
| ■ ASTM D 6158 (HM) | ■ JCMAS PO41 HK Hydraulic Specification |
| ■ B.F.Goodrich 0152 | ■ Jeffrey No. 87 |
| ■ Bosch Rexroth RE 90220 | ■ Lee-Norse 100-1 |
| ■ Denison HF-0, HF-1, HF-2 | ■ Racine, variable volume vane pumps |
| ■ DIN: 51524 Part II, III/51506 VDL | ■ SAE MS 1004 (HM) |
| ■ Eaton Vickers: I-286-S/M-2950-S | ■ SEB 181222 |
| ■ Ford M-6C32 | ■ Sauer Danfoss |
| ■ General Motors LH-03-1/04-1/06-1/15-1 | ■ U.S. Steel 127, 136 |

APPLICATIONS:

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|----------------------------|----------------|---------------|
| ■ Hydraulic Oil | ■ Construction | ■ Oil and Gas |
| ■ Arctic Service | ■ Agriculture | ■ Marine |
| ■ High Temperature Service | ■ Automotive | ■ Defense |
| ■ Long Drain Intervals | ■ Mining | ■ Forestry |
| ■ Industrial | ■ Energy | |
| ■ Manufacturing | ■ Off-Road | |

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TYPICAL SPECIFICATIONS:

ISO Viscosity Grade (VG)	10
Kinematic Viscosity at 40° C, cSt, ASTM D 445	8.6
Kinematic Viscosity at 100° C, cSt, ASTM D 445	2.5
Viscosity Index, ASTM D2270	120
Pour Point, °C (°F), ASTM D92	-52 (-62)
Cleanliness Class, ISO 4406	Pass
Color	Red
Steel Corrosion, ASTM D665A	Pass
Steel Corrosion, ASTM D665B	Pass
Copper Corrosion, 3 hr. at 100°C	1A
Air Release, 50° C, minutes	Pass
Demulsibility, ASTM D1401	42/39/1 (5)
FZG A/8.3/90 Load Stage Fail	12
Vane Pump Wear, Total mg.	32.8
Oxidation Stability, Acidity mg. at 1,000 hours	0.04
NBR-1 Seal 7 days and 2 hours at 100° C	Pass
Foam Sequence I	0.0
Foam Sequence II	0.0
Foam Sequence III	0.0
Ash Weight %	0.06
TAN mg. KOH g.	0.76
Dry Filtration, F1, min%	Pass
Dry Filtration, F2 min%	Pass
Wet Filtration, F1 min%	Pass
Wet Filtration, F2 min%	Pass
Relative Viscosity Loss at 40° C and 100° C after 20 hours	Pass
Demulsibility, ASTM D1401	Pass