

**788****Syn-O-Gen  
Synthetic THC Fluid**

**Description:** 788 Syn-O-Gen THC Fluid is a 100% pure synthetic multi-grade/multi-purpose industrial fluid lubricant. It is ideally suited to function in the majority of turbine, hydraulic, and compressor applications.

**Composition:** 788 Syn-O-Gen THC Fluid is carefully formulated with pure synthetic poly-alpha-olefin (PAO) basestocks and viscosity index improvers to achieve ideal viscosity characteristics for wide-range temperatures, and multi-purpose applications. Coupled with a balanced additive system which provides completely ashless anti-wear protection and film strengtheners, 788 Syn-O-Gen THC also contains oxidation, rust, corrosion, and foam inhibitors along with special demulsifiers.

**Performance Characteristics:** With an extremely high viscosity index, low pour point, and high thermal stability, 788 Syn-O-Gen has a much wider operating temperature range than conventional lubricants. It can actually replace lubricants a grade lower and a grade higher due to its specific viscosity formulation because it will not thicken as much when it gets cold or thin as much when it gets hot as conventional lubricants.

In addition to the above, the high thermal stability allows 788 Syn-O-Gen to last many times longer than conventional lubricants at normal high operating temperatures. 788 Syn-O-Gen can even operate at excessively high temperatures where conventional lubricants will fail.

**Uses:** 788 Syn-O-Gen meets and exceeds the following manufacturers' hydraulic fluid requirements:

- Vickers I-286-S, M-2950-S
- Denison HF-1, HF-2, HF-O
- Cincinnati Milacron P-68, P-69, P-70
- Lee Norse 100-1
- Jeffrey No. 87
- Ford M-6C32
- U.S. Steel 127, 136
- B.F. Goodrich 0152
- General Motors LH-04-1, LH-06-1, LH-15-1



788 Syn-O-Gen is also recommended for Sullair Rotary Screw Air Compressors and others where synthetic hydrocarbon or conventional petroleum base compressor fluids are required.

- Applications:**
- Turbine oil
  - Hydraulic oil
  - Compressor oil
  - Arctic service
  - High temperature service
  - Long drain service
  - Sealed for life services

**Specifications:**

Test No.	Name	ISO 46-68	ISO 32
	Approx. SAE Grade	0W-30	10W
D445	Viscosity,		
	SUS @ 100°F	272	173
	SUS @ 210°F	59.6	49
	cSt @ 40 °C	58.5	37.0
	cSt @ 100°C	10.1	6.9
D2270	Viscosity Index	161	148
D1298	Specific Gravity	0.84	0.83
D97	Pour Point, °F	<-50	<-50
D92	Flash Point, °F	495	495
D2155	Auto Ignition Temp., (°F.)	675	675
D189	Conradson Carbon (% Residue)	<.001%	<.001%
D611	Aniline Point	215	215
D874	Ash Content	Ashless	Ashless
D974	TAN (mg KOH/gm)	0.15	0.15
	Operating Temperature Range		
	for Continuous Service	-50°F to 350 °F	
	for Intermittent Service	-50°F to 550 °F	
D2882	Vickers Pump Test	Pass	
	Denison HF-O Pump Test	Pass	
D665	Turbine Oil Rust Test	Pass	
D1401	Turbine Oil Demulsibility	40-40-0 (10)	
D892	Foam Test (10 Min.)	Zero Foam	
D943	Turbine Oil Oxidation Stability Test	30,000+ hours	
D2272	Rotary Bomb Oxidation Test	3,600+ minutes	
D130	Copper Corrosion	1a	