



## EMBLEM AW HYDRAULIC OILS

**EMBLEM** AW Oils are heavy duty hydraulic and circulating oils designed to provide extra long service. Their highly refined base oils together with anti-wear additives and rust/oxidation inhibitors, offer excellent internal protection and high levels of lubricity. AW Oils are compatible with most inhibited oils and may be added to existing systems without need to change seal or filters. Typical applications for AW Oils range from closed hydraulic systems to forced feed lubricators commonly used with industrial machine tools, compressors, material handling and construction equipment. **Emblem** AW Hydraulic oils have over 680ppm of Zinc and Phosphorous much higher than most conventional Hydraulic oils. Available in eight grades: 55, 100, 160, 200, 300, 400, 600 and 900.

### Typical Properties

GRADE	55	100	160	200	300	400	600	900
ISO Visc. Grade	10	22	32	46	68	100	150	220
Viscosity, SUS @ 100°F	50-60	100-110	150-160	190-220	290-310	380-420	600-630	850-950
Gravity °API	33-35	30-31	28-30	28-30	28-30	27-28	27-28	27-28
Flash °F Min.	290	380	400	410	420	460	490	500
Pour °F Max.	- 20	- 35	-30	-30	-25	-10	0	+ 15
Anti-Foam Treated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Oxidation Inhibited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rust Inhibited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Anti-Wear Inhibited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Oxidation Life (hrs.)			3000	3000	3000	3000		
Carbon Residue %		0.1	0.03	0.2	0.2	0.2	0.2	0.25
Emulsion Test	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
ASTM D-1401	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)
Hydraulic Pump Test ASTM D2882 (200 psi, 1200 RPM, 175 oF), Ring & Vane Weight Loss, MG. 100 hrs	--	--	11	11	11	11	--	--

Meets Vickers Requirements M-2950-S	--	--	Yes	Yes	Yes	Yes	--	--
Meets Denison HF-O Requirement	--	--	Yes	Yes	Yes	Yes	--	--
Aniline Point °F	176-212	176-212	176-212	176-212	176-212	176-212	176-212	176-212
Zinc & Phos. % wt.	.068	.068	.068	.068	.068	.068	.068	.068