

Tena-Film ACH Oils



TENA-FILM ACH OILS are a new generation of thermally stable oils made with an ashless additive system. These new oils contain equal anti-wear properties to the organo-zinc additives without the disadvantage of breaking down under heat. They provide long term oxidation resistance for high-temperature air compressor service. They have excellent demulsibility characteristics so that water entrapped in the oil during service will separate readily and can be drained off without changing the oil. The ACH OILS are made in six grades – Nos. 010, 016, 022, 032, 047 and 070. All grades are winterized.

TYPICAL PROPERTIES

Grade	010	016	022	032	047	070
ISO Viscosity Grade	22	32	46	68	100	150
Viscosity Index, Min.	100	100	95	95	95	95
Viscosity @ 100° F. S.U.S.	105/115	145/155	195/205	325/385	450/500	725/772
Viscosity @ 210° F. S.U.S.	40	43	46	56	61	76
A.S.T.M. Color	1.0	2 ½	3	3	4	4
Flash, ° F.	380	400	410	440	460	500
Fire, ° F.	430	450	450	490	510	550
Pour Point, ° F.	-25	-25	-25	-25	-15	-15
A.P.I. Gravity @ 60° F.	32	30.8	29.7	29.4	28.8	28.2
Conradson Carbon Residue, %	.03	.05	.06	.08	.20	.23
Performance Tests: Vickers Vane Pump Test (D-2882) Ring & Vanes wt. loss, mg., 100 hrs.	26	26	26	26	<26	<26
Cincinnati Milacron Thermal Stability (168 hrs. @ 275° F.)	Pass	Pass	Pass	Pass	Pass	Pass
Turbine Oil Oxidation (D-943) Hrs. to 2.0 NNA	3000+	3000+	3000+	3000+	3000+	3000+
Rust Test (D-665) Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass
Demulsibility Test (D-1401 @ 130°vF.)	Pass	Pass	Pass	Pass	Pass	Pass

Additive Treatment:

New ashless additives for oxidation inhibition – Rust inhibition – Anti-foam – Anti-wear E.P. (non-corrosive) - Pour Point Depressant – special non-gumming Castor Lubricity additive.

SPECIAL FEATURES AND APPLICATIONS

TENA-FILM ACH OILS are the finest petroleum oils for Compressor and anti-wear hydraulic service. They meet Vickers Pump, Denison HF – 2 and Cincinnati Milacron requirements for anti-wear heavy-duty hydraulic specifications. They give longer superior performance in hydraulic systems operating under heavy loads, turbines, vacuum pumps, machine tools (slides & ways) and compressor service. Grade No. 022 is the proper grade for **SCREW TYPE** and **ROTARY VANE** compressors. Grade 032, 047 and 070 are recommended for **RECIPROCATING** compressors. The versatility of these ACH oils replaces our “R & O” oil series and provides thermally stable anti-wear protection as well as rust and oxidation inhibition. Grade No. 032 replaces our No. 54 VC Oil for vacuum pumps.

Grade No. 032 Vacuum Pump Oil vapor pressure data:

68° F.	-	003 Micron
100° F.	-	.025 Micron
150° F.	-	.50 Micron
200° F.	-	6.0 Micron

Data for the other grades can be furnished upon request.

Another advantage of our ashless additive system is that hydraulic oil leakage on metals that are heat-treated, such as in cold rolling of steel, reduces smut formation on metal, and the oil provides anti-wear protection in the hydraulic system.