



CERTIFICATE OF TEST RESULTS FOR RADCOLUBE® 2110
MIL-PRF-17672F HYDRAULIC FLUID, PETROLEUM, INHIBITED
ISO VISCOSITY GRADE 46, GRADE CODE B

<u>CHARACTERISTICS</u>	<u>REQUIREMENT</u>	<u>Results</u>	<u>TEST METHOD</u>
API Gravity	Report	32.2	ASTM D1298
Pour Point, °C (°F) maximum	-23°C (-10°F)	-39°C (-38.2°F)	ASTM D97
Flash Point, °C (°F) minimum	163°C (325°F)	226°C (438.8°F)	ASTM D92
Viscosity, centistokes (cSt) at 100°C (212°F) at 40°C (104°F)	Report 41.4 — 50.6	6.6 42.4	ASTM D445 ASTM D445
Viscosity Index, minimum	94	108	ASTM D2270
Acid Number, mg-KOH/g, maximum	0.2	0.03	ASTM D664
Corrosion, copper strip at 100°C (212°F), maximum	1	1B	ASTM D130
Rust Prevention (in the presence of salt water)	Pass	Pass	ASTM D665 procedure B
Water, percent maximum	0.01%	0.002%	ASTM D6304
Sulfated Ash, mass percent	Report	0.004%	ASTM D874
Foam Characteristics, after blowing/after 10 minutes: Sequence I, mL maximum Sequence II, mL maximum Sequence III, mL maximum	65/0 65/0 65/0	0 / 0 0 / 0 0 / 0	ASTM D892
Emulsion Test, after 30 minutes settling time: Oil Layer/Water Layer/Emulsion Layer, mL maximum	41 / Report / 3	41 / 39 / 0	ASTM D1401
Oxidation Test, after 1000 hours: Acid Number, mg KOH/g, maximum Total Sludge, mg, maximum Total Iron, mg, maximum Total Copper, mg, maximum	2.0 100 100 100	0.14 15.8 1.6 2	ASTM D943 ASTM D974, D664 ASTM D4310 ASTM D4310 ASTM D4310
Oxidation Stability by Rotating Bomb, minutes	Report	1370	ASTM D2272
Solid Particle Contamination, mg/100mL maximum	2.5	1.60	ASTM D4898
ASTM Color	Report	L1.5	ASTM D1500
Sulfur, ppm	Report	22	ASTM D2622
Conradson Carbon Residue	Report	0.04%	ASTM D4530
Compatibility	MIL-PRF-17672F Section 3.3	Pass	MIL-PRF-17672F Section 4.4.2
Homogeneity, sedimentation or separation	MIL-PRF-17672F Section 3.4	Pass	MIL-PRF-17672F Section 4.4.3
Appearance	MIL-PRF-17672F Section 3.5	Pass	MIL-PRF-17672F Section 4.4.4