

Comparison of EcoSafe® FR-46 with Quintolubric 822-220

	Quintolubric	EcoSafe®
Test	888-46	EHC-46
Appearance	clear, amber liquid	clear, orange liquid
Viscosity, cSt @40° C	46	48.9
Viscosity, cSt @100° C	10	9.35
ISO Grade	46	46
Viscosity Index	220	185
Specific Gravity @ 60/60°F	0.90	0.985
Weight (lb./gal.) @ 60/60°F	7.51	8.19
Pour Point, °F	< -4	-50
Acid Number, mg KOH/g	2.0	0.35
ASTM D665 Rust Test:		
Procedure A	Pass	Pass
Procedure B	No data	Pass
Turbine Oil Stability Test: [1]		
Dry	Fail	Pass
Wet	Fail	Pass
Pump Wear, D2882	< 5 mg	< 2 mg
Shell 4-Ball Test:		
40 kg load, Scar dia., mm	No data	0.35
Flash Point, °F	527	525
Fire Point, °F	617	585
Autoignition Temperature, °F	842	725
Heat of Combustion (btu/lb)	15,000	14,880
Factory Mutual Approved	Yes	Yes
Readily Biodegradable	Yes	Yes
Neurotoxin	No	No
Seal Compatibility	Fair	Excellent
Hose Compatibility	Fair	Excellent
Metal Compatibility	Fair	Excellent
Hydrolytic Stability	Poor	Excellent
Combustion Toxicity	Low	Low
Formation of Varnish / Gels	Poor	Excellent
Price	Moderate	Moderate

[1] 2000 hours or a 2.0 change in Acid Number.

Fyrquel Plus
<u>EHC</u>
clear transparent
liquid
47
5
46
0
1.145
No data
0
0.05
Pass
No data
Fail
Fail
<5 mgs
0.48
475
665
1050
13,459
Yes
No
Yes
Poor
Poor
Poor
Poor
High
Poor
High