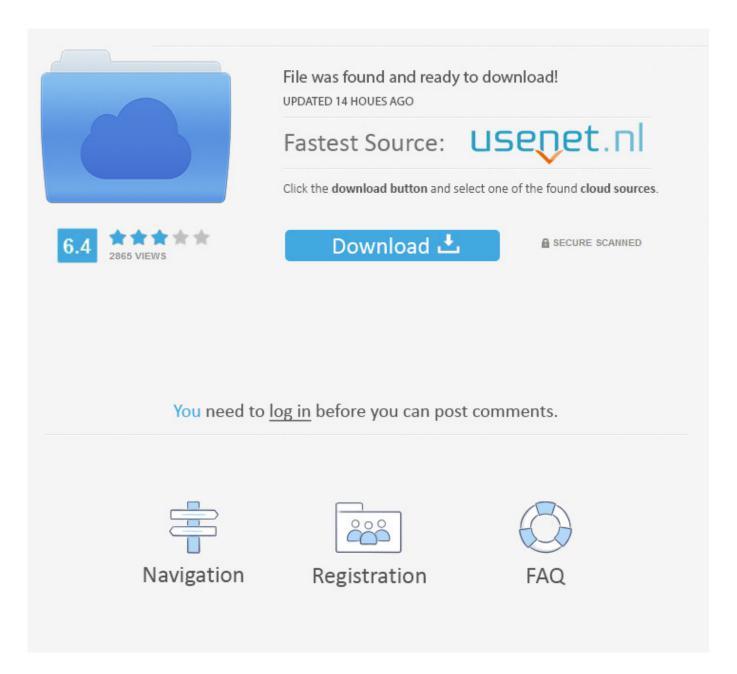


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## Appendix 2 -ASTM and OEM Used Oil Limits

	ASTM D4378	Ahlstom - Gas and Steam	GE - Gas	GE - Steam	Solar	MHI - Steam & Gas	Siemens/ Westinghouse
Source	ASTM D4378	HTGD901117	GEK 32568f	GEK 46506D	ES9-224	MS04-MA- CL001 and CL002	K-8962-11
Viscosity @ 40°C	+/- 5% of new oil	Exceeds ISO VG Class	25 to 41	29.6 to 36.3	+20% or -10% of new oil	26 to 39	+/- 10% of new oil
TAN	0.3 to 0.4 over new oil	0.2 rise above new oil	0.4	0.5	0.6 max for mineral oils; 0.8 for SHC	0.4 increase over new	0.3 to 0.4 over new oil
RPVOT	< 25%		< 25% of new	> 50 minutes	> 25% of new oil	> 25% of original	25% of new oil
Water	> 0.1%	500 ppm		0.1% max	2,000 ppm max		200 ppm max
Flash Point - ASTM D92	30°F drop from original			375°F (191°C) minimum			
Rust Prevention - ASTM D665	light fail in D665A			Pass			
Cleanliness		17/14		16/14	Abrupt Change		17/14 max
Demulsibility		30 minutes max				-	<20 minutes
Metals		15-25 ppm; >30 ppm limit					Trend/consult
Air Release		8 minutes for ISO VG 32			10 minutes max (guideline)		4 minutes max
Foam	Seq I exceeds 450/10				Seq I - 300/10; Seq II - 300/10 (guideline)		Seq I - 400/10

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