SUPER LIFE® 500H Series

SUPER HEAVY DUTY MARINE DIESEL TRUNK PISTON ENGINE OILS

SUPER LIFE® 500H Series are premium heavy duty marine diesel engine oils specially designed for use in medium speed trunk piston engines ,super charged and naturally aspirated . They are formulated from high quality base stocks and additives with the 15 BN, 20 BN, 30 BN, 40 BN, 50 BN or 57 BN alkalinity level to overcome the adverse effects seen in engines running with cracked residual fuels under the most severe operating conditions.

APPLICATIONS:

SUPER LIFE® 500H Series are recommended for trunk piston diesel engines for ocean-going marine vessels ,supply boats ,tug boats, trawlers and oilrigs using medium and high sulfur fuel. They meet the following performance standards: Wärtsilä (Sulzer) , MWM Deutz , MAN Diesel, etc.

API CF

BENEFITS:

- Keep pistons and piston ring grooves against lacquer ,varnish and carbon deposits.
- Maintain high outputs by protecting against high temperature piston deposits which hinder proper ring action.
- Maintain camshaft spaces and crankcase in good condition.
- Long oil life and good oil consumption control.
- Separate easily from water.
- Extend engine life.

TYPICAL CHARACTERISTICS

Test	Method	Typical Results					
		500H15			500H20		
SAE Viscosity Grade	SAE J300	**30**	**40**	**50**	**30**	**40**	**50**
API Gravity	ASTM D 287	25.88	24.17	22.64	24.85	22.98	22.18
Specific Gravity @ 15.6 ^{o} C (60°F)	ASTM D1298	0.899	0.909	0.918	0.905	0.916	0.921
Viscosity @ 40°C, cSt @ 100°C, cSt	ASTM D445	108 11.85	145 15.4	227 19.5	103 11.5	158.5 15.4	238 20.2
Viscosity Index	ASTM D2270	98	98	98	98	98	98
Flash Point, ^{o}C (^{o}F)	ASTM D92	225 (437)	230 (446)	230 (446)	225 (437)	230 (446)	230 (446)
Pour Point, ^{o}C (^{o}F)	ASTM D97	-15 (5)	-12 (10)	-9 (15.8)	-15 (5)	-12 (10)	-9 (15.8)
Total Base Number, mg KOH/g	ASTM D2896	15	15	15	20	20	20
FZG Gear Test A/8.3/90	DIN 51354	12	12	12	12	12	12

Test	Method	Typical Results					
		500H30			500H40		
SAE Viscosity Grade	SAE J300	**30**	**40**	**50**	**30**	**40**	**50**
API Gravity	ASTM D 287	24.33	22.64	21.97	23.99	23.14	21.47
Specific Gravity @ 15 ^{o} C (60°F)	ASTM D1298	0.908	0.918	0.922	0.910	0.915	0.925
Viscosity @ 40°C, cSt @ 100°C, cSt	ASTM D445	106 11.7	161 15.6	243 20.5	107 11.8	163 15.7	249 20.8
Viscosity Index	ASTM D2270	98	98	98	98	98	98
Flash Point, ^{o}C (^{o}F)	ASTM D92	225 (437)	230 (446)	230 (446)	225 (437)	230 (446)	230 (446)
Pour Point, ^{o}C (^{o}F)	ASTM D97	-15 (5)	-12 (10)	-9 (15.8)	-15 (5)	-12 (10)	-9 (15.8)
Total Base Number, mg KOH/g	ASTM D2896	30	30	30	40	40	40
FZG Gear Test A/8.3/90	DIN 51354	12	12	12	12	12	12

Test	Method	Typical Results					
		500H50			500H57		
SAE Viscosity Grade	SAE J300	**30**	**40**	**50**	**30**	**40**	**50**
API Gravity	ASTM D 287	23.14	22.30	20.65	23.14	20.65	19.03
Specific Gravity @ 15 ^{o} C (60°F)	ASTM D1298	0.915	0.92	0.93	0.915	0.93	0.94
Viscosity @ 40°C, cSt @ 100°C, cSt	ASTM D445	110 12	168 16	253 21	113 12.2	159 15.48	260 21.3
Viscosity Index	ASTM D2270	98	98	98	98	98	98
Flash Point, ^{o}C (^{o}F)	ASTM D92	225 (437)	230 (446)	230 (446)	225 (437)	230 (446)	230 (446)
Pour Point, ^{o}C (^{o}F)	ASTM D97	-15 (5)	-12 (10)	-9 (15.8)	-15 (5)	-12 (10)	-9 (15.8)
Total Base Number, mg KOH/g	ASTM D2896	50	50	50	57	57	57
FZG Gear Test A/8.3/90	DIN 51354	12	12	12	12	12	12

The above characteristics are average values based on recent production. Minor variations, which do not affect product performance, are to be expected in normal manufacture.

WARNING:

Continuous contact with used motor oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children.

Don't pollute. Conserve resources. Return used oil and bottle to collection centers

Reference MSDS Number 12024 database on out website at ***www.amtecol.com***