



CITGO IDEAL® PLUS OILS

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**DESCRIPTION:** CITGO Ideal Plus Oils are superior quality turbine lubricants formulated with a white mineral oil base and an additive system designed for high temperature and long service life. They are available in three (3) viscosity grades.

**QUALITIES:** CITGO Ideal Plus Oils are highly resistant to harmful sludge and varnish formation, and fully inhibited against high temperature oxidation, rust and corrosion. They have excellent water shedding properties and due to the stability of their unique white oil base stocks provide exceptionally long service life.

CITGO Ideal® Plus Oils contain a non-silicone foam inhibitor to combat excessive foaming and air entrainment.

**APPLICATIONS:** CITGO Ideal Plus Oils meet the specifications of all major steam turbine generator builders and are widely used by electrical generating utility companies. They are used where high temperature resistance is required in marine turbines and reduction gears, hydraulic governor and control systems, and are suitable for low pressure hydraulic systems operating at less than 1000 psi where exceptionally long service life is required.

**TYPICAL PROPERTIES:**

**CITGO IDEAL PLUS OILS**

ISO VIS Grade	32	68	100
Material Code	669467001	669468001	669469001
Gravity, ASTM D 4052, °API	32.6	31.1	30.5
Color, ASTM D 1500	L1.0	L1.0	L1.0
Flash Point, ASTM D 92, °F (°C)	380 (193)	420 (216)	440 (227)
Pour Point, ASTM D 97, °F (°C)	-25 (-32)	-25 (-32)	15 (-9)
Viscosity, ASTM D 445, cSt at 40°C	32	68	100
ASTM D 2161, SUS at 100°F	165	350	485
SUS at 210°F	44	56	65
Viscosity Index, ASTM D 2270	110	110	110
Water Separation time, ASTM D 1401, minutes at 130°F	15	15	15
RPVOT, ASTM D 2272, minutes	1,500	1,500	1,500
Oxidation Stability, ASTM D 943 Mod., hrs	15,000+	15,000+	15,000+
Carbon Residue, ASTM D 524, m%	<0.05	<0.05	<0.05
Total Acid Number, ASTM D 974, mgKOH/g	0.20	0.20	0.20
Rust Test, B, ASTM D 665	No Rust @ 24 hrs	No Rust @ 24 hrs	No Rust @ 24 hrs
Foam Test, ASTM D 892			
Seq. I, ml	10-0	10-0	10-0
Seq. II, ml	20-0	20-0	20-0
Seq. III, ml	10-0	10-0	10-0