

### Oxidation

Method	Test Description	Sample Size
• ASTM D130	Copper Strip Corrosion	100 mL
ASTM D525	Oxidation Stability (Gasoline)	200 mL
ASTM D665	Rust Prevention 4 Hours (Method A or B)	1 L
ASTM D665	Rust Prevention 24 Hours (Method A or B)	1 L
ASTM D942	Oxidation Stability (Grease) 100 Hours	150 mL
ASTM D942 Mod.	Oxidation Stability (Grease) > 100 Hours	150 mL
ASTM D943	Oxidation Characteristics (2.0 TAN or 1000 Hours)	600 mL
ASTM D943	Oxidation Characteristics (2.0 TAN or 2000 Hours)	600 mL
ASTM D943	Oxidation Characteristics (2.0 TAN or 3000 Hours)	600 mL
ASTM D1743	Rust Prevention Properties of Grease	50 g
ASTM D1748	Rust Protection by Humidity Cabinet	1 L
ASTM D2070	Thermal Stability (Hydraulic Fluids)	300 mL
ASTM D2112	Oxidation Stability of Inhibited Oil by Pressure Vessel at 140°C	150 mL
• ASTM D2272	Rotating Bomb Oxidation Test (RBOT) Single Run	150 mL
• ASTM D2272	Rotating Pressure Vessel Oxidation Test (RPVOT) Single Run	150 mL
• ASTM D2272	RPVOT, Run to End-of-Test, Hard Break	150 mL
ASTM D2274	Oxidation Stability (Petroleum Fuel Oil)	2 L
ASTM D2619	Hydrolytic Stability	250 mL
ASTM D2893	Oxidation Characteristics Extreme Pressure	500 mL
• ASTM D4048	Copper Strip Corrosion, Grease	100 g
ASTM D4310	Sludging & Corrosion Tendency (Up to 1000 Hours)	1 L
ASTM D4742	Thin Film Oxidation Uptake Test (TFOUT) Gas Engine Oils	50 mL
ASTM D5483	Oxidation Stability of Greases by PDSC	10 g
ASTM D6186	Oxidation Induction Time by PDSC	20 mL
• ASTM D6335	Thermo-oxidation Engine Oil Simulation Test (TEOST® 33C)	250 mL
ASTM D6557	Ball Rust Test	125 mL
• ASTM D6594	High Temperature Corrosion Bench Test at 135°C	125 mL
• ASTM D7097	Thermo-oxidation Engine Oil Simulation Test (TEOST MHT®-4)	50 mL
ASTM D7098	Thin Film Oxygen Uptake Test (TFOUT) Catalyst B	50 mL
• ASTM D7414	FTIR Analysis, In-Service Fluid, Oxidation	50 mL
ASTM D7462	Oxidation Stability (Biodiesel)	2 L
ASTM D7462	Oxidation Stability (Biodiesel - B100 Option)	2 L
ASTM E1269 & E1133	Specific Heat and TGA for Fluids	100 mL
ASTM E1858	Oxidation Induction Time by PDSC	25 g
• CEC L-48	Oxidation Stability of Lubricating Oils by Artificial Aging	1 L
CEC L-085-T99	Oxidation Induction Time by PDSC	5 mL
• CEC L-105	ACEA Low Temperature Pumpability	700 mL
• CEC L-109	Bio-Diesel Oxidation Bench Test, Single Run 168 Hours	1 L
• CEC L-109	Bio-Diesel Oxidation Bench Test, in Duplicate 168 Hours	1 L
• CEC L-109	Bio-Diesel Oxidation Bench Test, Single Run 216 Hours	1 L
• CEC L-109	Bio-Diesel Oxidation Bench Test, in Duplicate 216 Hours	1 L
EN 14112	Oxidation Stability (Biodiesel & Petroleum Blends) Rancimat	100 mL
EN 15751	Oxidation Stability (Bio-based FAME Only) Rancimat	100 mL
NACE TM0172	Corrosive Properties of Cargoes in Petroleum Product Pipelines	1 L
SAEJ1703 COR	Corrosion Test	1.7 L
SAEJ1703 HTS	High Temperature Stability	200 mL
SAEJ1703 OR	Oxidation Resistance	100 mL
SAVLAB EV-CDT	Conductive Deposit Test	100 mL
SAVLAB EV-WCT	Wire Corrosion Test	200 mL

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