

# Standard Tribology Tests

## Elemental Analysis



Test Type	Petrol Engine	Diesel Engine	Marine Engine	Gas Engine	Hydraulic	Turbine	Gear	Transmission	Refrig Comp	Air Comp	Grease	Engine Coolant
Al	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cr	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cu	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fe	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pb	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sn	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Si	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mg	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Na	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ca	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zn	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ni	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Li											✓	

## FTIR

Test Type	Petrol Engine	Diesel Engine	Marine Engine	Gas Engine	Hydraulic	Turbine	Gear	Transmission	Refrig Comp	Air Comp	Grease	Engine Coolant
Water	✓	✓	✓	✓	✓	✓	✓	✓		✓		
Soot		✓	✓									
Glycol	✓			✓								
Nitration	✓			✓		✓						
Sulfation		✓	✓									
Oxidation		✓	✓	✓	✓	✓	✓	✓		✓		
TBN		✓	✓									

## Physical

Test Type	Petrol Engine	Diesel Engine	Marine Engine	Gas Engine	Hydraulic	Turbine	Gear	Transmission	Refrig Comp	Air Comp	Grease	Engine Coolant
Visc @40	✓			✓	✓	✓	✓	✓	✓	✓		
Visc @100		✓	✓	✓								
TAN				✓		✓			✓	✓		
TBN				✓								
PQ Index	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
ISO Cleanliness					✓	✓		✓	✓			
Moisture (KF)									✓		✓	
Visc Index				✓								
Fuel	✓	✓	✓									
Nitrite Reserve												✓
Alkalinity												✓
pH												✓
TDS												✓
Conductivity												✓
Glycol %												✓

**Note:** Test packages are determined by the laboratory to ensure tests are carried out for the compartment sampled.

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