

	Standard Oil	Acid/ Base Number	Premium	Filtergram	HP Water	Coolant	Diesel	Grease/ Emulsion	Turbine/ Hydraulic	Filtercake	Glycol Test (Auto Trans.)	Diesel Basic	RPVOT
Element	SOS3	SOS3ANBN	SOS3PREM	SOS4	SOS5	SOS6	SOS8	SOS011	SOS013	SOS15	SOS16	SOS18	SOS20
Copper	x	x	x		x	x	x	x	x		x	x	
Iron	x	x	x		x	x	x	x	x		x	x	
Chromium	x	x	x		x			1,4,5	x		x		
Lead	x	x	x		x	x		1,4,5	x		x		
Aluminium	x	x	x		x	x	x	x	x		x	x	
Silicon	x	x	x		x	x	x	x	x		x	x	
Tin	x	x	x		x	x		1,4,5	x		x		
Nickel	x	x	x		x			1,4,5	x		x		
Sodium	x	x	x		x	x	x	x	x		x	x	
Potassium	x	x	x		x	x		x	x		x		
Molybdenum	x	x	x		x	x		1,4,5	x		x		
Calcium	x	x	x		x	x	x	x	x		x	x	
Magnesium	x	x	x		x	x	x	x	x		x	x	
Phosphorus	x	x	x		x	x	x	x	x		x	x	
Zinc	x	x	x		x	x	x	x	x		x	x	
Titanium	x	x	x		x			4, 5	x		x		
Antimony	x	x	x		x			1,4,5	x		x		
Vanadium	x	x	x		x		x	x	x		x	x	
Boron	x	x	x		x	x		1,4,5	x		x		
Sulfur	x	x	x		x		x	x	x		x	x	
Sulfur %							x					x	
Silver	x	x	x		x			4, 5	x		x		
Manganese	x	x	x		x			4, 5	x		x		
Cadmium	x	x	x		x			4, 5	x		x		
Barium	x	x	x		x			4, 5	x		x		
Lithium	x	x	x		x			5	x		x		
Viscosity @ 40°C	x	x	x		x		x	4	x		x	x	
Viscosity @ 100°C	x	x	x		x						x		
Fuel Dilution	x	x	x		x						x		
Water	x	x						5					
Water by Karl Fisher Coulometer	9		x		x		x	5	x		x	x	
Water by Karl Fisher Volumetric								1					
Soot (2)	x	x	x		x								
Oxidation (2)	x	x	x		x				x				
Sulfation (2)	x	x	x		x								
Nitration (2)	x	x	x		x				x				
PQ Index	x, 8	x	x	x	x		x	5	x	x		x	
Visible Dep.	x, 8	x	x		x		x	5	x			x	
ISO 4406.2	x, 8	x	x		x		x		x		x	x	
Total Acid Number	9	x	x		x				x				
Total Base Number	9	x	x		x								
Temp 10% Distillation							x						
Temp 50% Distillation							x						
Temp 90% Distillation							x						
Temp 95% Distillation							x						
Lubricity							x						
Cetane Index							x						
Refractive Index % Brix								1					
Cloud Point (°C)							x						
Water and Sediment							x						
Colour ASTM D1500							x		7			x	
Appearance ASTM D4176							x						
API Gravity	8						x					x	
Density g/10L@15°C	8						x					x	
Total Hardness as CaCO3							x						
Micro-organisms							x	1				x	
Flash Point °C	8						x					x	
PCT >4 micron	x	x	x		x		x		x		x	x	
PCT >6 micron	x	x	x		x		x		x		x	x	
PCT >10 micron	x	x	x		x		x		x		x	x	
PCT >14 micron	x	x	x		x		x		x		x	x	
PCT >18 micron	x	x	x		x		x		x		x	x	
PCT >21 micron	x	x	x		x		x		x		x	x	
PCT >38 micron	x	x	x		x		x		x		x	x	
PCT >50 micron	x	x	x		x		x		x		x	x	
Conductivity							x	1					
H+ Concentration							x	1					
Precipitate							x						
Solution							x						
Nitrite							x						
Nitrate							x						
Glycolate							x						
Coolant Odour							x						
Chloride							x						
Olfactory							x						
Appearance							x						
Sulphate							x						
% GLYCOL							x						
Particle Wear Factor %				x						x			
Particle Distribution %				x						x			
Particle Identification %				x						x			
Scaled Primary Photograph			x	x				4					
Scaled Secondary Photograph				x									
Scaled Primary Photograph with Embedded ISO Code								1, 4					
Filter Patch								1					
Ferrogram								5		x			
SEM Particle Count- ISO Code								6					
Wear Severity Graph			x					1, 5					
Membrane Patch Colorimetric (MPC)									7				
Glycol											x		
Hydroxyl group											x		
Rotating Pressure Vessel Oxidation Test (RPVOT)													x
Remaining Useful Life Analysis Routine									x				
Drop Point								5					
Cone Penetration								5					
NLGI Consistency Number								5					

Note 1. Emulsion samples	Note 2. Unsubtracted FTIR	Note 4. Oil sample only and will include SOS3 analysis
Note 5: Grease samples	Note 6: Diesel Engine Oils (requiring particle count)	Note 7: Hydraulic Oils
Note 8: Diesel Samples	Note 9. Gas Engines. Fuel dilution not included.	