

	Standard Oil	Acid/ Base Number	Premium	Filtergram	HP Water/ Refrigeration	Coolant	Diesel	Engine Oil / Grease / Emulsion / Waste Oil	Turbine/ Hydraulic	Filtercake	Diesel Basic	RPVOT
Element	SOS3	SOS3ANBN	SOS3PREM	SOS4	SOS5	SOS6	SOS8	SOS011	SOS013	SOS15	SOS18	SOS20
Copper	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Iron	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Chromium	•	•	•		•, R			O, G, E, W	•			
Lead	•, C	•	•, C		•, R	•		O, G, E, W	•			
Aluminium	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Silicon	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Tin	•, C	•	•, C		•, R	•		O, G, E, W	•			
Nickel	•	•	•		•, R			O, G, E, W	•			
Sodium	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Potassium	•, C	•	•, C		•, R	•		O, G, E, W	•			
Molybdenum	•, C	•	•, C		•, R	•		O, G, E, W	•			
Calcium	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Magnesium	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Phosphorus	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Zinc	•, C	•	•, C		•, R	•	•	O, G, E, W	•		•	
Titanium	•	•	•		•, R			O, G, W	•			
Antimony	•	•	•		•, R			O, G, E, W	•			
Vanadium	•	•	•		•, R		•	O, G, E, W	•		•	
Boron	•, C	•	•, C		•, R	•		O, G, E, W	•			
Sulfur	•, C	•	•, C		•, R		•	O, G, E, W	•		•	
Silver	•	•	•		•, R			O, G, W	•			
Manganese	•	•	•		•, R			O, G, W	•			
Cadmium	•	•	•		•, R			O, G, W	•			
Barium	•	•	•		•, R			O, G, W	•			
Lithium	•	•	•		•, R			O, G	•			
Degassed Viscosity @ 40°C					R							
Viscosity @ 40°C	•	•	•		•		•	O, E, W	•		•	
Viscosity @ 100°C	O	O	•					O				
Fuel Dilution (2)	•	•	•					O				
Water	•	•	•					O, W				
Water by Karl Fisher Coulometer	2		•		•, R		•	G	•		•	
Water by Karl Fisher Volumetric								E				
Soot	•	•	•					O				
Oxidation	•	•	•		•, R			O	•			
Sulfation	•	•	•		•			O				
Nitration	•	•	•		R			O	•			
PQ Index	•	•	•	•	•, R		•	O, G	•	•	•	
Visible Dep.	•	•	•		•, R		•	O, G, W	•		•	
ISO 4406.2	•	•	•		•, R		•	•	•		•	
PCT >4 micron	•	•	•		•, R		•	•	•		•	
PCT >6 micron	•	•	•		•, R		•	•	•		•	
PCT >10 micron	•	•	•		•, R		•	•	•		•	
PCT >14 micron	•	•	•		•, R		•	•	•		•	
PCT >18 micron	•	•	•		•, R		•	•	•		•	
PCT >21 micron	•	•	•		•, R		•	•	•		•	
PCT >38 micron	•	•	•		•, R		•	•	•		•	
PCT >50 micron	•	•	•		•, R		•	•	•		•	
SEM Particle Count- ISO Code								O, W				
Particle Count- ISO 4407 (Manual)				3								
Total Acid Number	2	•	•		•, R				•			
Total Base Number	2	•	•									
Remaining Useful Life Analysis Routine									•			
Rotating Pressure Vessel Oxidation Test (RPVOT)												•
Membrane Patch Colorimetric (MPC)									1			
Temp 10% Distillation							•					
Temp 50% Distillation							•					
Temp 90% Distillation							•					
Temp 95% Distillation							•					
Sulfur %							•				•	
Lubricity							•					
Cetane Index							•					
Cloud Point (°C)							•					
Water and Sediment							•					
Colour ASTM D1500					R		•		1		•	
Appearance ASTM D4176							•					
API Gravity							•				•	
Density g/10L@15°C			C				•	E, W			•	
Micro-organisms							•	E			•	
Flash Point °C							•	W			•	
Glycol												
Hydroxyl group												
Total Hardness as CaC ² 3	C		C			•		E				
Reserve Alkalinity			C									
Refractive Index % Brix								E				
Conductivity	C		C			•		E				
H+ Concentration	C		C			•		E				
Total Dissolved Solids			C									
Precipitate	C		C			•						
Solution	C		C			•						
Nitrite	C		C			•						
Nitrate	C		C			•						
Glycol %	C		C			•						
Glycolate	C		C			•						
Coolant Odour	C		C			•						
Chloride	C		C			•						
Olfactory	C		C			•						
Appearance	C		C			•						
Sulfate	C		C			•						
Particle Wear Factor %				•						•		
Particle Distribution %				•						•		
Particle Identification %				•						•		
Scaled Primary Photograph				•								
Scaled Secondary Photograph				•								
Comparison Patch								E				
Filter Patch			•									
Ferrogram								G		•		
Wear Severity Graph			•					G				
Drop Point								G				
Cone Penetration								G				
NLGI Consistency Number								G				

Note E: Emulsion samples Note C: Coolant samples Note O: Engine Oil samples Note G: Grease samples. Note R: Refrigeration samples. Note W: Waste Oil samples Note 1: Hydraulic Oils Note 2: Gas Engines. Fuel dilution not included. Note 3: Oil only and specified on card