

CONSTRUCTION EQUIPMENT

SWA305295 SOM-MARO CATERPILLAR GENERATOR 09EP02244 - DIESEL ENGIN

Sample No: VCP416316

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SWA305295 SOM-MARO

VOLVO				
SAMPLE II	NFORMATION			
Sample Number	-	VCP416316	VCP359912	
Sample Date		12 Jul 2023	24 May 2022	
Machine Hours		922	876	
Oil Hours		50	60	
Oil Changed		Changed	Changed	
Sample Status		ATTENTION	ATTENTION	
OIL CONDI	TION			
Visc @ 100°C	cSt	11.3	▲ 11.7	
Base Number (BN)	mg KOH/g	10.5	■11.5	
Oxidation (PA)	%	77	83	

CONTAN	MINATION			
Soot %	%	■ 0.1	□ 0.1	
Nitration (PA)	%	52	58	
Sulfation (PA)	%	59	62	
Glycol	%	NEG	NEG	
Fuel	%	0.7	■ 0.6	
Silicon	ppm	7	6	
Sodium	ppm	■3	2	
Potassium	ppm	■ 0	0	

Iron ppm 2 3 Copper ppm 6 1 Lead ppm 0 <1	
Lead ppm □ 0 □ <1	
Tin ppm	
Pp	
Aluminum ppm ■ <1	
Chromium ppm □ 0	
Molybdenum ppm ■43 ■40	
Nickel ppm 0 0	
Titanium ppm ■ <1	
Silver ppm 0 <1	
Manganese ppm ■ <1	
Vanadium ppm <1 0	

ADDITIVES					
Calcium	ppm	1674	1717		
Magnesium	ppm	■ 597	511		
Zinc	ppm	1147	1 064		
Phosphorus	ppm	■955	929		
Barium	ppm	□ 0	0		
Boron	ppm	63	68		



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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO2990Unique No:10565403Signed:Don BaldridgeReport Date:25 Jul 2023



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GRAPHS

