

CONSTRUCTION EQUIPMENT

RS0035504 VOLVO EC550EL 310082 - DIESEL ENGINE



Sample No: VCP422326

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

Job No: RSO035504

VOLVO					
SAMPLE IN	NFORMATION				
Sample Number	-	VCP422326			
Sample Date		25 Sep 2023			
Machine Hours		643			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		ABNORMAL			
OIL CONDI.	TION				
Visc @ 100°C	cSt	△ 10.3			
Base Number (BN)		4.9			
Oxidation (PA)	%	65			
CONTAMINATION					
	_				
Soot %	%	■ 0.1			
Nitration (PA)	%	84			
Sulfation (PA)	%	57			
Glycol	%	■ 0.0			
Fuel	%	■ 0.7			
Silicon	ppm	<u>▲</u> 31			
Sodium	ppm	2			
Potassium	ppm	■ <1			
VOLVO					
WEAR ME	TALS				
Iron	ppm	13			
Copper	ppm	<u> </u>			
Lead	ppm	■ 3			
Tin	ppm	■3			
Aluminum	ppm	■ <1			
Chromium	ppm	■<1			
Molybdenum	ppm	■87			
Nickel	ppm	4			
Titanium	ppm	0			
Silver	ppm	0			
Manganese	ppm	■ 3			
Vanadium	ppm	<1			
ADDITIVES					
Calcium	ppm	2082			
Magnesium	ppm	25			
Zinc	ppm	1181			
Phosphorus	ppm	955			
Barium	ppm	■0			
Boron	ppm	18			
231011	PPIII				



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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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO8247Unique No:10674110Signed:Doug BogartReport Date:08 Oct 2023



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