

CONSTRUCTION EQUIPMENT VOLVO EC480 315364 - DIESEL ENGINE



Sample No: VCP430275

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

Job No:

CVMDLEIV	IFORMATION				
	II UNITATION				
Sample Number		VCP430275			
Sample Date		30 Jan 2024			
Machine Hours		0			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		ABNORMAL			
VOLVO					
OIL CONDIT	TION				
Visc @ 100°C	cSt	▲ 11.0			
Base Number (BN)		4.6			
Oxidation (PA)	%	75			
Oxidation (FA)	70	73			
VOLVO					
CONTAMINATION					
Water	%	NEG			
Soot %	%	■ 0.1			
Nitration (PA)	%	89			
Sulfation (PA)	%	64			
Glycol	%	NEG			
Fuel	%	0.7			
Silicon	ppm	<u>^</u> 26			
Sodium	ppm	4			
Potassium	ppm	■3			
WEAR METALS					
WEAK ME	IAL2				
Iron	ppm	17			
Copper	ppm	<u> </u>			
Lead	ppm	2			
Tin	ppm	■ 3			
Aluminum	ppm	2			
Chromium	ppm	■ <1			
Molybdenum	ppm	■83			
Nickel	ppm				
Titanium	ppm	<1			
Silver	ppm	■ 0			
Manganese	ppm	2			
Vanadium	ppm	<1			
ADDITIVES					
Calcium	ppm	1915			
Magnesium	ppm	187			
Zinc	ppm	1182			
Phosphorus	ppm	■974			
Barium	ppm	2			
Boron	ppm	6			



COWIN EQUIPMENT COMPANY

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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). Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO8532Unique No:10871878Signed:Jonathan HesterReport Date:13 Feb 2024



CONSTRUCTION EQUIPMENT





