

CONSTRUCTION EQUIPMENT VOLVO EC380EL 315682 - DIESEL ENGINE



Sample No: VCP450776

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

Job No:

VOLVO					
SAMPLE II	NFORMATION				
Sample Number		VCP450776	VCP441084		
Sample Date		17 Jun 2024	29 Jan 2024		
Machine Hours		1607	618		
Oil Hours		0	0		
Oil Changed		Changed	Changed		
Sample Status		ABNORMAL	ABNORMAL		
OIL CONDI	TION				
Visc @ 100°C	cSt	12.3	10.5		
Base Number (BN)		■ 6.2	4.5		
Oxidation (PA)	%	87	70		
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CONTAMINATION					
LUNTAMI	-				
Water	%	NEG	NEG		
Soot %	%	■ 0.1	0.1		
Nitration (PA)	%	83	88		
Sulfation (PA)	%	63	61		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	1.2		
Silicon	ppm	6	2 5		
Sodium	ppm	<u> </u>	4		
Potassium	ppm	■ <1	6		
VOLVO					
WEAR METALS					
Iron	ppm	■ 6	□10		
Copper	ppm	45	△ 276		
Lead	ppm	□ 0	2		
Tin	ppm	■ 0	2		
Aluminum	ppm	■ <1	3		
Chromium	ppm	■ 0	0		
Molybdenum	ppm	41	■88		
Nickel	ppm	■0	<u> </u>		
Titanium	ppm	0	0		
Silver	ppm	■0	0		
Manganese	ppm		3		
Vanadium	ppm	0	<1		
VOLVO	_				
ADDITIVE	7				
Calcium	ppm	1685	■2158		
Magnesium	ppm	439	20		
Zinc	ppm	1021	1240		
Phosphorus	ppm	■821	■1047		
Barium	ppm	■0	0		
Boron	ppm	7	2 0		

ALTA EQUIPMENT COMPANY

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Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. 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:VOLVO0090Unique No:11087181Signed:Sean FeltonReport Date:21 Jun 2024



CONSTRUCTION EQUIPMENT





