

CONSTRUCTION EQUIPMENT 27843 VOLVO L350H 1048 - DIESEL ENGINE



Sample No: VCP426998

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

Job No: 27843

Silicon

Sodium

Potassium

ppm

ppm

ppm

5

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SAMPLE II	NFORMATION						
Sample Number	-	VCP426998	VCP401777	VCP398954	VCP383520		
Sample Date		12 Aug 2023	29 Apr 2023	26 Jan 2023	28 Oct 2022		
Machine Hours		9846	9091	8223	7950		
Oil Hours		0	1000	1000	501		
Oil Changed		Changed	Changed	Changed	Changed		
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL		
OIL CONDITION							
Visc @ 100°C	cSt	11.3	□13.2	□13.4	□13.2		
Base Number (BN)	mg KOH/g	■8.7	■8.4	■8.8	□ 6.9		
Oxidation (PA)	%	64	80	80	101		
VOLVO							
CONTAMINATION							
Soot %	%	0.5	□ 0.3	□ 0.4	■ 0.8		
Nitration (PA)	%	73	66	74	93		
Sulfation (PA)	%	58	57	61	71		
Glycol	%	NEG	NEG	NEG	NEG		
Fuel	%	4.5	<1.0	<1.0	< 1.0		

VOLVO								
WEAR METALS								
Iron	ppm	8	5	7	1 5			
Copper	ppm	_ 7	8	<u> </u>	1 1			
Lead	ppm	2	0	3	■13			
Tin	ppm	-<1	- <1	- <1	2			
Aluminum	ppm	4	2	2	5			
Chromium	ppm	-<1	- <1	- <1	- <1			
Molybdenum	ppm	26	■38	3 5	4 2			
Nickel	ppm	■ <1	- <1	- <1	- <1			
Titanium	ppm	2	<1	3	<1			
Silver	ppm	-<1	0	0	0			
Manganese	ppm	-<1	< 1	< 1	< 1			
Vanadium	ppm	<1	0	<1	0			

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ADVITION						
Calcium	ppm	2171	1731	1603	1689	
Magnesium	ppm	■366	514	■532	482	
Zinc	ppm	1138	1152	11115	1 093	
Phosphorus	ppm	■935	■948	■890	■846	
Barium	ppm	0	■0	■0	■0	
Boron	ppm	■26	■35	4 0	1 6	



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Diagnosis

We advise that you check the fuel injection system. 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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot:VOLVO3387Unique No:10608026Signed:Jonathan HesterReport Date:22 Aug 2023



CONSTRUCTION EQUIPMENT





