

CONSTRUCTION EQUIPMENT 621688 VOLVO L 150H 6057 - DIESEL ENGINE



Sample No: VCP440797

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

Job No: 621688

SAMPLE	INFORMATION				
Sample Number	-	VCP440797	VCP417650	VCP411630	VCP394049
Sample Date		30 Oct 2023	10 Aug 2023	01 Jun 2023	10 Mar 2023
Machine Hours		11520	11051	10591	10046
Oil Hours		500	500	500	500
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ATTENTION	ATTENTION	ATTENTION
OIL CON	DITION				
Visc @ 100°C	cSt	12.3	<u> </u>	<u>▲</u> 12.3	<u> </u>
Base Number (BN	N) mg KOH/g	10.2	9.6	■9.6	■10.1
Oxidation (PA)	%	77	73	82	76
CONTAN	MINATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	0.1	■ 0.1	□0.1
Nitration (PA)	%	56	55	56	53
Sulfation (PA)	%	59	56	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	5	4
Sodium	ppm	21	3	2	1
Potassium	ppm	12	□0	0	□0
WEAR N	AFTAIS				

WEAR METALS							
	<u> </u>	<u> </u>			<u> </u>		
Iron	ppm	■4	2	■3	3		
Copper	ppm	<u>^</u> 26	- <1	 <1			
Lead	ppm	■2	0	0	0		
Tin	ppm	■<1	0	□ 0	0		
Aluminum	ppm	1	0	0	< 1		
Chromium	ppm	■0	0	■ 0	 <1		
Molybdenum	ppm	■38	42	42	47		
Nickel	ppm	■0	0	□ 0	0		
Titanium	ppm	0	0	0	0		
Silver	ppm	■0	0	□ 0	0		
Manganese	ppm	■<1	- <1	- <1	< 1		
Vanadium	ppm	0	<1	0	0		

ADDITIVES								
Calcium	ppm	1464	1732	1636	1717			
Magnesium	ppm	467	5 02	5 03	554			
Zinc	ppm	1032	■1118	1062	1184			
Phosphorus	ppm	■870	■924	■889	□967			
Barium	ppm	■0	□0	■0	0			
Boron	ppm	21	■37	■36	4 5			



PARAGON DEVELOPMENT GROUP

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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 is abnormal. 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:PARPLAUnique No:10764770Signed:Don BaldridgeReport Date:01 Dec 2023



CONSTRUCTION EQUIPMENT





