

CONSTRUCTION EQUIPMENT SPM621481 VOLVO L 110E 61050 - DIESEL ENGINE



Sample No: VCP409048

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

Job No: SPM621481

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP409048	VCP347853	VCP316687	VCP307303
Sample Date		30 Oct 2023	28 Jan 2022	13 Jul 2021	02 Jun 2021
Machine Hours		22631	20515	3046	19750
Oil Hours		0	500	0	250
Oil Changed		Changed	Changed	Changed	Not Changd
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CONDI	TION				
		=12.4	— 12.1	= 12.0	= 12.6
Visc @ 100°C	cSt	■ 13.4	13.1	12.9	12.6
Base Number (BN)		■9.8	11.0	7.0	
Oxidation (PA)	%	81	87	76	84
VOLVO					
CONTAMI	NATION				
Soot %	%	■0.4	□0.4	□ 0.2	□0.2
Nitration (PA)	%	63	68	59	57
Sulfation (PA)	%	65	68	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■8	9	4	5
Sodium	ppm	■<1	0	2	2
Potassium	ppm	2	- <1	0	- <1
WEAR ME	7115				
_	<u> </u>				-
Iron	ppm	14	1 1	6	5
Copper	ppm	<u>^</u> 23		= <1	= <1
Lead	ppm	■<1	<1	- <1	= <1
Tin	ppm	■ <1	= <1	= <1	- <1
Aluminum	ppm	2	2	1	1
Chromium	ppm	1	1	<1	- <1
Molybdenum	ppm	43	■39	■34	■38
Nickel	ppm	■ <1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	□ <1	<1	<1	<1
Vanadium	ppm	0	<1	0	0
VOLVO					
ADDITIVE:					
Calcium	ppm	1658	■ 1737	■ 1583	□1574
Magnesium	ppm	■ 525	□ 537	□ 507	485
Zinc	ppm	1153	1083	1004	1090
Phosphorus	ppm	1029	939	■881	905
Barium	ppm	<u> </u>	< 1	0	0
	26				~



BLAZE CONSTRUCTION

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Diagnosis

No corrective action is recommended at this time. 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 component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:BLADETUnique No:10728569Signed:Sean FeltonReport Date:08 Nov 2023

ppm

Boron



CONSTRUCTION EQUIPMENT





