

CONSTRUCTION EQUIPMENT VOLVO L90H 623556 - DIESEL ENGINE



Sample No: VCP442622

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

Job No:

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP442622	VCP386035	VCP297929	VCP296132
Sample Date		07 Feb 2024	07 Nov 2022	21 Jun 2021	06 Jan 2021
Machine Hours		5387	4897	3976	3428
Oil Hours		0	500	500	500
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CONDI	TION				
Visc @ 100°C	cSt	12.8	13.2	□ 13.4	□13.3
Base Number (BN)	mg KOH/g	■9.8	11.4		
Oxidation (PA)	%	83	88	84	84
CONTAMIN	NATION				
		NEC	NEC	5 0.436	NEC
Water Soot %	%	NEG	NEG	0.136	NEG
Nitration (PA)	%	■ 0.3 69	■ 0.3 74	0.3	□ 0.3 78
. ,		60	65	93 63	63
Sulfation (PA)	%	NEG	NEG	NEG	NEG
Glycol Fuel	%	NEG <1.0	<1.0	<1.0	<1.0
Silicon		₹1.0	₹1.0 □7	< 1.0 1.0	₹1.0 ■8
Sodium	ppm	0	1	3	4
Potassium	ppm	2		1	1 0
Potassium	ppm		- <1	<u> </u>	<u></u> 10
VOLVO	TALC				
WEAR ME	IALS				
Iron	ppm	12	1 0	■9	■12
Copper	ppm	1	- <1	<1	 <1
Lead	ppm	■ <1	0	0	 <1
Tin	ppm	■ <1	- <1	< 1	0
Aluminum	ppm	<u>^</u> 20	■8	2	1 0
Chromium	ppm	■ <1	 <1	<1	- <1
Molybdenum	ppm	46	4 5	■31	4 2
Nickel	ppm	■<1	0	□ 0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	■0	0	0	0
Manganese	ppm	■ <1	<1	<1	1 < 1
Vanadium	ppm	0	0	0	0
ADDITIVE					
Calcium	ppm	1522	□1804	□ 1592	□1838
Magnesium	ppm	■ 500	500	□ 565	□ 648
Zinc	ppm	■1124	1161	974	1109
Phosphorus	ppm	■872	985	■885	■ 1037
Barium	ppm	■ <1	0	□0	□0
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RIPA AND ASSOCIATES

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: ROBERT TURNER rturner@ripatampa.com T: F:

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 aluminum level is abnormal. 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:RIPTAMUnique No:10870768Signed:Don BaldridgeReport Date:09 Feb 2024

ppm

Boron



CONSTRUCTION EQUIPMENT





