

CONSTRUCTION EQUIPMENT VOLVO L90H 624039 - DIESEL ENGINE



Sample No: VCP437852

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

Job No:

VOLVO CAMDI FII	NFORMATION				
_	MI UNIMATION	VCD427052	VCD422270	VCD271400	VCD2604E0
Sample Number		VCP437852	VCP422278	VCP271498	VCP268458
Sample Date		28 Apr 2024	30 Mar 2023	04 Jun 2020	13 Jan 2020
Machine Hours		4432	3868	2495	2004
Oil Hours		0	500	500	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CONDI	TION				
Visc @ 100°C	cSt	12.9	□13.0	□ 13.2	□13.2
Base Number (BN)		■ 5.8	10.5	15.2	15.2
Oxidation (PA)	%	82	80	78	80
	70	02	00	70	00
CONTAMI	NATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■0.3	□ 0.4	□0.4
Nitration (PA)	%	91	66	69	62
Sulfation (PA)	%	65	60	61	59
Glycol	%	NEG	NEG	NEG	NEG
uel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	■ 8	■ 8	9
Sodium	ppm	21	2	4	3
Potassium	ppm	■12	□0	□1	<u> </u>
VOLVO WEAD ME	TALC				
WEAR ME	I ALS				
ron	ppm	■30	1 4	1 3	1 4
Copper	ppm	■ 3	2		2
_ead	ppm	■ <1	0		 < 1
in	ppm	1	0		
Aluminum	ppm	△ 33	1 9	9	1 1
Chromium	ppm	4	1	- <1	1
Molybdenum	ppm	49	4 4	■33	4 0
Nickel	ppm	■ <1	0	<u> </u>	- <1
ītanium	ppm	<1	0	0	0
Silver	ppm	■0	0	0	0
Manganese	ppm	■ <1	1	 <1	< 1
/anadium	ppm	<1	0	0	0
ADDITIVE	7				
_		1645	m 1777	T 1606	T1662
Calcium	ppm	■ 1645	□ 1777	■ 1606	□1662
Magnesium 	ppm	■517	□ 526	□ 557	□ 503
Zinc	ppm	■1136 ■1030	1175	□ 979	■826
Phosphorus	ppm	1029	□ 995	■870	□ 759
Barium	ppm	■ <1	0	□0	0



RIPA AND ASSOCIATES

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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 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 suitable for further service.

Depot:RIPTAMUnique No:11031024Signed:Sean FeltonReport Date:17 May 2024

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ppm

Boron



CONSTRUCTION EQUIPMENT





