

CONSTRUCTION EQUIPMENT 624438 WM VOLVO L90H 624438 - DIESEL ENGINE



Sample No: VCP431530

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

Job No: 624438 WM

SAMPLE II	NFORMATION				
Sample Number		VCP431530	VCP431652	VCP432735	VCP417658
Sample Date		15 Dec 2023	27 Oct 2023	01 Sep 2023	10 Jul 2023
Machine Hours		12918	12363	11842	11301
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	ABNORMAL	ABNORMAL
				7.0.1.0.1.1.7.12	7.0.1.01
VOLVO	TION				
OIL CONDI	IIUN				
Visc @ 100°C	cSt	12.6	12.8	■ 12.5	12.4
Base Number (BN)	mg KOH/g	■ 9.7	10.0	■ 9.5	■9.7
Oxidation (PA)	%	83	84	84	86
CONTAMIN	NATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■0.4	0.4	□ 0.4	□0.4
Nitration (PA)	%	65	65	67	68
Sulfation (PA)	%	61	61	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	■3.6
Silicon	ppm	■11	□15	▲ 22	△ 25
Sodium	ppm	2	0	3	4
Potassium	ppm	2	1	1 0	■0
i otassiai ii	ррпп		<u> </u>		
VOLVO					
WEAR ME	TALS				
Iron	ppm	4	7	■9	6
Copper	ppm	■0	- <1	■1	- <1
Lead	ppm	0	0	□ 0	0
Tin	ppm	■ <1	0		0
Aluminum	ppm	5	5	1 2	2
Chromium	ppm	■ <1	- <1	- <1	- <1
Molybdenum	ppm	41	□46	4 2	4 5
Nickel	ppm	■ <1	- <1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	- <1	■0	0
Manganese	ppm		■0	< 1	< 1
Vanadium	ppm	0	0	0	<1
ADDITIVE:	7				
_		□ 1630	m 1507	T 1000	m 10F2
Calcium	ppm	509	□ 1587 □ 525	□ 1800 □ 529	1852
Magnesium	ppm	303	323	■ 329	535

924

4

24

964

0

22



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Diagnosis

Resample at the next service interval to monitor. All 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:VOLVO0096Unique No:10795609Signed:Don BaldridgeReport Date:21 Dec 2023

1150

961

0

25

1102

911

0

28

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

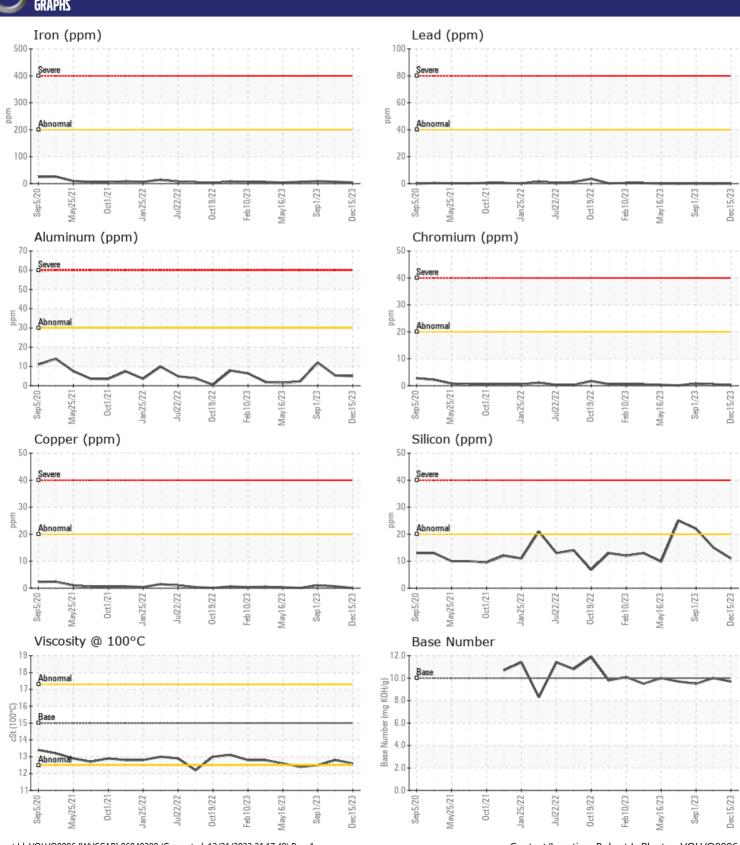
Phosphorus



CONSTRUCTION EQUIPMENT







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Contact/Location: Robert LaPlante - VOLVO0096