

CONSTRUCTION EQUIPMENT VOLVO L90H 625060 - DIESEL ENGINE



Sample No: VCP411987

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

Job No:

VOLVO					
SAMPLE	INFORMATION				
Sample Number		VCP411987	VCP326047	VCP301521	VCP278464
Sample Date		25 Aug 2023	10 Sep 2021	11 Feb 2021	24 Jul 2020
Machine Hours		2836	0	914	484
Oil Hours		0	1500	500	484
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
OIL COND	ITION				
_			-422	— 12.0	— 10.0
Visc @ 100°C	cSt	13.4	13.3	13.0	12.8
Base Number (BN)		■9.5			
Oxidation (PA)	%	83	84	82	77
VOLVO					
CONTAM	INATION				
Water	%			□ 0.103	
Soot %	%	■ 0.5	0.8	 0.5	0.5
Nitration (PA)	%	77	87	76	70
Sulfation (PA)	%	61	63	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 7	9	9	■18
Sodium	ppm	■ 3	3	0	4
Potassium	ppm	2	3	4	3
WEAR M	ZIATE				
_					
Iron	ppm	20	28	2 9	4 4
Copper	ppm	2	2	3	8
Lead Tin	ppm	<1 ×1	<1	<1 = 2	1
	ppm		2	2	3
Aluminum	ppm	■ 6	□ 19 □ 2	□ 14 □ 3	□42 □6
Chromium Molybdenum	ppm	■ 52	4 7	■ 3 ■ 47	■37
Nickel	ppm	■ 52 ■ <1	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	< 1 ■ 0	0	0	0
Manganese	ppm	■ 1	1	<u></u> 2	<u>5</u>
Vanadium	ppm	<1	0	0	0
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VOLVO					
ADDITIV	2:				
Calcium	ppm	1961	1660	□1772	□1528
Magnesium	ppm	600	5 96	□ 576	648
Zinc	ppm	1289	1194	□1129	■866
Phosphorus	ppm	1030	981	■ 1047	824

0



RIPA AND ASSOCIATES

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: PM Services PMServices@ripaconstruction.com T:

Diagnosis

F:

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 suitable for further service.

Depot:RIPTAMUnique No:10649663Signed:Wes DavisReport Date:20 Sep 2023

- < 1

125

< 1</p>

ppm

ppm

Barium

Boron

0

26



CONSTRUCTION EQUIPMENT





