

CONSTRUCTION EQUIPMENT 507 VOLVO L 120H 632889 - DIESEL ENGINE



Sample No: VCP412888

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

Job No: 507

SAMPLE II	NFORMATION				
Sample Number		VCP412888	VCP337860	VCP359757	VCP295346
Sample Date		24 Oct 2023	01 Aug 2023	08 Nov 2022	15 Jun 2021
Machine Hours		6371	5627	4637	1190
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		SEVERE	SEVERE	NORMAL	ABNORMAL
Sumple Status		0272112	SEVERCE	TTOTAL	/ IDI VOI (IVI) (L
VOLVO	TION				
OIL CONDI	IIUN				
Visc @ 100°C	cSt	12.9	12.8	■ 13.7	■13.7
Base Number (BN)	mg KOH/g	■ 5.8	5.2	12.3	
Oxidation (PA)	%	126	129	85	108
CONTAMIN	JATION				
_	%	=0.7	5 0.7	E0.3	
Soot %		■ 0.7	0.7	0.3	0.5
Nitration (PA)	%	84	84	53	91
Sulfation (PA)	%	76 NEC	76	67 N.F.C	74
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0 △ 26
Silicon	ppm	5 1	82	□ 14 □ 2	
Sodium	ppm	7	6	2	4
Potassium	ppm	■ 53	48	2	- <1
VOLVO					
WEAR ME	TALS				
Iron	ppm	21	□34	5	□ 32
Copper	ppm	7	11	2	▲ 32
Lead	ppm	■8	<u> </u>	<u> </u>	5
Tin	ppm	3	5	<u></u> <1	3
Aluminum	ppm	1 7	1 6	4	1 5
Chromium	ppm	1	1	- <1	2
Molybdenum	ppm	166	167	■40	4 6
Nickel	ppm	- <1	- <1	- <1	0
Titanium	ppm	<1	<1	<1	- <1
Silver	ppm	■ 0	- <1	2	1
Manganese	ppm	■ <1	1	< 1	1
Vanadium	ppm	<1	<1	<1	0
ADDITIVE	7				
_		1505	m 1757	m 1627	III 1004
Calcium	ppm		□ 1757 □ 467	□ 1637	1804
Magnesium Zinc	ppm	438	■467 ■1039	□ 490 □ 1119	□ 559
	ppm	■ 976	1039	_	1135
Phosphorus	ppm	■827	798	■925	934

0

23

0

59

0

28



VCES- VOLVO CONSTRUCTION EQUIPMENT
12345 MAPLEVIEW STREET

LAKESIDE, CA US 92040

Contact: Mark Stewart mark.stewart@vcesvolvo.com

T: X: F: X:

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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:VOLVO4488Unique No:10723682Signed:Don BaldridgeReport Date:03 Nov 2023

0

ppm

ppm

Barium

Boron



CONSTRUCTION EQUIPMENT





