

CONSTRUCTION EQUIPMENT VOLVO LZOH 1220100 - DIESEL ENGINE



Sample No: VCP433580

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

Job No:

SAMPLE	INFORMATION				
Sample Number		VCP433580	VCP264490	VCP246896	
Sample Date		24 Sep 2023	28 Jan 2020	19 Jun 2019	
Machine Hours		5056	786	272	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		ABNORMAL	NORMAL	NORMAL	
VOLVO	NITION				
OIL CONE	JIIIUN				
/isc @ 100°C	cSt	13.6	12.0	11.2	
Base Number (BN) mg KOH/g	4.9			
Oxidation (PA)	%	108	88	76	
CONTAM	INATION				
_		·			
Soot %	%	■ 0.1	□ 0.1	□ 0.1	
Nitration (PA)	%	103	68	54	
Sulfation (PA)	%	71	62	59	
Glycol	%	NEG	NEG	NEG	
uel	%	<1.0	< 1.0	<1.0	
Silicon	ppm	■8	1 3	1 9	
Sodium	ppm	5	5	■8	
Potassium	ppm	■0	4	4	
WEAR M	FTAIS				
ron		11	1 11	1 1	
Copper	ppm	<u>△</u> 62	6	8	
-ead	ppm				
-ead Fin	ppm	□ 0 □ 2	1 0	□ 2 □ 0	
Aluminum	ppm				
Chromium	ppm	4	2	4	
	ppm	■ <1	1	1	
Molybdenum	ppm	■55	37	□ 34	
Nickel	ppm	0	<1	0	
Fitanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	■ <1	3	2	
/anadium	ppm	0	0	0	
VOLVO					
ADDITIV	ES				
Calcium		1750	■1880	■ 1867	
Magnesium	ppm	606	457	422	
Zinc		1194	932	976	
Phosphorus	ppm				
•	ppm	884	□714 □2	■ 844	
Barium	ppm	0	2	2	



ALTA EQUIPMENT COMPANY

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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 copper 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:VOLVO0090Unique No:10669214Signed:Don BaldridgeReport Date:28 Sep 2023

ppm

Boron



CONSTRUCTION EQUIPMENT





