



CONSTRUCTION EQUIPMENT

12645-1 VOLVO L120H 633359 - DIESEL ENGINE



Sample No: VCP453563
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12645-1



SAMPLE INFORMATION

Sample Number	VCP453563	VCP435227	VCP265884	---
Sample Date	09 May 2024	17 Jul 2023	25 May 2023	---
Machine Hours	3834	1521	1040	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

HOFFMAN EQUIPMENT - LIONVILLE
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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	12.6	---
Base Number (BN)	mg KOH/g	7.2	8.5	9.7	---
Oxidation (PA)	%	37	49	70	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.2	---
Nitration (PA)	%	48	63	63	---
Sulfation (PA)	%	43	47	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	7	13	---
Sodium	ppm	3	2	5	---
Potassium	ppm	5	1	4	---



WEAR METALS

Iron	ppm	7	15	26	---
Copper	ppm	3	8	21	---
Lead	ppm	3	0	4	---
Tin	ppm	3	1	3	---
Aluminum	ppm	4	17	▲ 52	---
Chromium	ppm	3	2	4	---
Molybdenum	ppm	12	32	52	---
Nickel	ppm	2	0	<1	---
Titanium	ppm	4	2	2	---
Silver	ppm	3	<1	1	---
Manganese	ppm	2	<1	3	---
Vanadium	ppm	2	0	0	---



ADDITIVES

Calcium	ppm	2091	1987	2101	---
Magnesium	ppm	106	505	587	---
Zinc	ppm	995	1230	1196	---
Phosphorus	ppm	838	989	1007	---
Barium	ppm	<1	1	0	---
Boron	ppm	21	25	64	---

Depot: VOLVO8879
Unique No: 11033709
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

