



CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - DIESEL ENGINE



Sample No: VCP433507
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP433507	VCP426724	VCP282776	---
Sample Date	09 Nov 2023	31 Jul 2023	29 Jun 2020	---
Machine Hours	13618	12544	4821	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.9	15.2	13.5	---
Base Number (BN)	mg KOH/g	8.5	7.9	---	---
Oxidation (PA)	%	94	88	61	---



CONTAMINATION

Soot %	%	1.2	0.9	0.4	---
Nitration (PA)	%	98	78	58	---
Sulfation (PA)	%	69	66	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	9	4	---
Sodium	ppm	2	4	2	---
Potassium	ppm	<1	2	0	---



WEAR METALS

Iron	ppm	33	▲ 83	7	---
Copper	ppm	1	5	2	---
Lead	ppm	2	13	<1	---
Tin	ppm	1	2	0	---
Aluminum	ppm	12	▲ 22	5	---
Chromium	ppm	1	4	<1	---
Molybdenum	ppm	64	72	246	---
Nickel	ppm	<1	1	<1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1765	1923	1121	---
Magnesium	ppm	615	772	1051	---
Zinc	ppm	1297	1427	1236	---
Phosphorus	ppm	1049	1125	1170	---
Barium	ppm	0	0	0	---
Boron	ppm	18	5	<1	---

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: VOLVO0090
Unique No: 10740607
Signed: Don Baldrige
Report Date: 16 Nov 2023



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GRAPHS

