



CONSTRUCTION EQUIPMENT

VOLVO L150H 7044 - DIESEL ENGINE



Sample No: VCP454369
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454369	VCP441083	VCP376071	---
Sample Date	13 May 2024	13 Feb 2024	01 Nov 2023	---
Machine Hours	4048	3484	2819	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	▲ 12.4	---
Base Number (BN)	mg KOH/g	9.0	9.7	8.3	---
Oxidation (PA)	%	76	77	85	---

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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.4	---
Nitration (PA)	%	64	58	76	---
Sulfation (PA)	%	59	60	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	5	5	6	---
Sodium	ppm	<1	2	2	---
Potassium	ppm	3	<1	5	---



WEAR METALS

Iron	ppm	6	8	11	---
Copper	ppm	5	▲ 26	▲ 86	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	1	<1	2	---
Aluminum	ppm	2	1	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	45	47	51	---
Nickel	ppm	1	1	1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1613	1793	1798	---
Magnesium	ppm	479	545	594	---
Zinc	ppm	1081	1208	1269	---
Phosphorus	ppm	931	990	1002	---
Barium	ppm	0	0	0	---
Boron	ppm	33	26	22	---

Depot: VOLVO0090
Unique No: 11035289
Signed: Wes Davis
Report Date: 21 May 2024



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GRAPHS

