



CONSTRUCTION EQUIPMENT

SPM673556-10 VOLVO L150H 7044 - DIESEL ENGINE



Sample No: VCP441083
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM673556-10



SAMPLE INFORMATION

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

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OIL CONDITION

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

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still 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.



CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	1793	■ 1798	---	---
Magnesium	ppm	545	■ 594	---	---
Zinc	ppm	1208	■ 1269	---	---
Phosphorus	ppm	990	■ 1002	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	26	■ 22	---	---

Depot: VOLVO0090
Unique No: 10887548
Signed: Don Baldrige
Report Date: 22 Feb 2024



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GRAPHS

