



CONSTRUCTION EQUIPMENT

VOLVO L90H 625804 - DIESEL ENGINE



Sample No: VCP449934
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449934	VCP436715	VCP418609	---
Sample Date	10 Jun 2024	10 Jan 2024	01 Sep 2023	---
Machine Hours	4060	3506	3029	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.1	13.0	---
Base Number (BN)	mg KOH/g	9.7	10.4	10.1	---
Oxidation (PA)	%	72	79	72	---

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 %	%	0.5	0.5	0.5	---
Nitration (PA)	%	62	60	61	---
Sulfation (PA)	%	58	60	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	6	6	---
Sodium	ppm	<1	<1	2	---
Potassium	ppm	1	0	2	---



WEAR METALS

Iron	ppm	18	11	16	---
Copper	ppm	1	1	4	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	7	7	6	---
Chromium	ppm	1	2	1	---
Molybdenum	ppm	51	47	52	---
Nickel	ppm	<1	1	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1521	1607	1818	---
Magnesium	ppm	608	544	583	---
Zinc	ppm	1113	1174	1176	---
Phosphorus	ppm	877	908	938	---
Barium	ppm	0	0	0	---
Boron	ppm	22	22	33	---

Depot: VOLVO0090
Unique No: 11073553
Signed: Wes Davis
Report Date: 12 Jun 2024



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GRAPHS

