



CONSTRUCTION EQUIPMENT

VOLVO L90H 625855 - DIESEL ENGINE



Sample No: VCP416383
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP416383	VCP383227	VCP381175	---
Sample Date	11 Dec 2023	16 Mar 2023	16 Dec 2022	---
Machine Hours	2920	2301	1762	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.8	14.2	12.8	---
Base Number (BN)	mg KOH/g	8.9	9.8	9.5	---
Oxidation (PA)	%	59	61	80	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.7	---
Nitration (PA)	%	63	62	79	---
Sulfation (PA)	%	52	53	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	4	9	---
Sodium	ppm	0	2	3	---
Potassium	ppm	2	<1	1	---



WEAR METALS

Iron	ppm	15	12	46	---
Copper	ppm	3	4	4	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	8	4	12	---
Chromium	ppm	2	2	4	---
Molybdenum	ppm	60	57	64	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1032	1068	1672	---
Magnesium	ppm	950	852	511	---
Zinc	ppm	1212	1164	1108	---
Phosphorus	ppm	1057	948	915	---
Barium	ppm	12	0	2	---
Boron	ppm	0	<1	23	---

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.

Depot: VOLVO0090
Unique No: 10790343
Signed: Don Baldrige
Report Date: 18 Dec 2023



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GRAPHS

