



CONSTRUCTION EQUIPMENT

12457 VOLVO L90H 626365 - DIESEL ENGINE



Sample No: VCP370928
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12457



SAMPLE INFORMATION

Sample Number	VCP370928	VCP370676	---	---
Sample Date	09 Aug 2023	10 Jan 2023	---	---
Machine Hours	1819	904	---	---
Oil Hours	1819	904	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---



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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	---	---
Base Number (BN)	mg KOH/g	10.6	11.2	---	---
Oxidation (PA)	%	80	78	---	---



CONTAMINATION

Soot %	%	0.5	0.4	---	---
Nitration (PA)	%	56	56	---	---
Sulfation (PA)	%	62	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	9	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	<1	0	---	---



WEAR METALS

Iron	ppm	12	20	---	---
Copper	ppm	<1	2	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	7	18	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	41	43	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1815	1759	---	---
Magnesium	ppm	539	497	---	---
Zinc	ppm	1206	1087	---	---
Phosphorus	ppm	957	924	---	---
Barium	ppm	0	0	---	---
Boron	ppm	37	45	---	---

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: VOLV00117
Unique No: 10604683
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

