



CONSTRUCTION EQUIPMENT

S50402019 IAA CANYON VOLVO L90H 625932 - DIESEL ENGINE



Sample No: VCP403562
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50402019 IAA CANYON



SAMPLE INFORMATION

Sample Number	VCP403562	VCP369160	VCP386520	---
Sample Date	27 Oct 2023	10 Jan 2023	30 Sep 2022	---
Machine Hours	1403	0	1653	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.3	▲ 6.2	■ 13.5	---
Base Number (BN)	mg KOH/g	10.1	▲ 0.3	■ 11.9	---
Oxidation (PA)	%	84	71	92	---

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 %	%	0.4	■ 0.1	■ 0.4	---
Nitration (PA)	%	61	37	73	---
Sulfation (PA)	%	62	56	67	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	■ 0.6	<1.0	---
Silicon	ppm	6	■ 4	▲ 24	---
Sodium	ppm	0	■ 4	■ 4	---
Potassium	ppm	2	■ 0	■ 2	---



WEAR METALS

Iron	ppm	10	■ 138	■ 28	---
Copper	ppm	1	■ 5	■ 2	---
Lead	ppm	0	■ 0	■ <1	---
Tin	ppm	<1	■ 0	■ 2	---
Aluminum	ppm	2	■ 6	■ 15	---
Chromium	ppm	<1	■ <1	■ 6	---
Molybdenum	ppm	42	■ 4	■ 46	---
Nickel	ppm	<1	■ 0	■ 0	---
Titanium	ppm	<1	■ 0	■ <1	---
Silver	ppm	0	■ 0	0	---
Manganese	ppm	<1	■ 1	■ <1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1698	▲ 236	■ 1701	---
Magnesium	ppm	510	■ 53	■ 532	---
Zinc	ppm	1125	▲ 121	■ 1094	---
Phosphorus	ppm	975	▲ 244	■ 898	---
Barium	ppm	12	■ 0	■ 0	---
Boron	ppm	34	■ 66	■ 48	---

Depot: VOLVO4486
Unique No: 10790357
Signed: Wes Davis
Report Date: 15 Dec 2023



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GRAPHS

