



CONSTRUCTION EQUIPMENT

334347 VOLVO L90H 624347 - DIESEL ENGINE



Sample No: VCP416160
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 334347



SAMPLE INFORMATION

Sample Number	VCP416160	VCP252437	---	---
Sample Date	17 Aug 2023	29 Aug 2019	---	---
Machine Hours	2032	659	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	---	---
Base Number (BN)	mg KOH/g	7.1	---	---	---
Oxidation (PA)	%	48	73	---	---



CONTAMINATION

Soot %	%	0.1	0.5	---	---
Nitration (PA)	%	65	78	---	---
Sulfation (PA)	%	46	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	19	---	---
Sodium	ppm	2	6	---	---
Potassium	ppm	1	12	---	---



WEAR METALS

Iron	ppm	8	51	---	---
Copper	ppm	<1	8	---	---
Lead	ppm	0	3	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	▲ 16	8	---	---
Chromium	ppm	1	4	---	---
Molybdenum	ppm	80	40	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	6	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1982	1557	---	---
Magnesium	ppm	36	716	---	---
Zinc	ppm	1093	988	---	---
Phosphorus	ppm	956	835	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	69	23	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is 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.

Depot: VOLV00142
Unique No: 10630068
Signed: Don Baldrige
Report Date: 01 Sep 2023



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GRAPHS

