



CONSTRUCTION EQUIPMENT

SW1029784 STEFFEY VOLVO L110H 632500 - DIESEL ENGINE



Sample No: VCP439435
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1029784 STEFFEY



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SAMPLE INFORMATION

Sample Number	VCP439435	VCP413310	---	---
Sample Date	17 Feb 2024	02 Sep 2023	---	---
Machine Hours	1052	528	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 9.1	█ 9.9	---	---
Oxidation (PA)	%	72	75	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.3	---	---
Nitration (PA)	%	63	59	---	---
Sulfation (PA)	%	58	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 14	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ 2	█ <1	---	---



WEAR METALS

Iron	ppm	█ 24	█ 32	---	---
Copper	ppm	█ 8	█ 14	---	---
Lead	ppm	█ 2	█ 2	---	---
Tin	ppm	█ 3	█ 3	---	---
Aluminum	ppm	▲ 22	▲ 89	---	---
Chromium	ppm	█ 2	█ 5	---	---
Molybdenum	ppm	█ 45	█ 36	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 1	---	---
Manganese	ppm	█ 1	█ 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1123	█ 1517	---	---
Magnesium	ppm	█ 614	█ 642	---	---
Zinc	ppm	█ 1022	█ 1163	---	---
Phosphorus	ppm	█ 810	█ 962	---	---
Barium	ppm	█ 36	█ 11	---	---
Boron	ppm	█ 18	█ 55	---	---

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 has decreased, but is still 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: VOLVO6174
Unique No: 10898175
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

