



CONSTRUCTION EQUIPMENT

A12151 IAA VOLVO L90H 626688 - DIESEL ENGINE



Sample No: VCP440349
Oil Type: MOBIL 15W40
Job No: A12151 IAA



SAMPLE INFORMATION

Sample Number	VCP440349	VCP412825	---	---
Sample Date	23 Feb 2024	20 Sep 2023	---	---
Machine Hours	1155	660	---	---
Oil Hours	500	660	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

HOFFMAN EQUIPMENT - LIONVILLE

120 GORDON DRIVE
LIONVILLE, PA
US 19341
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 6.3	█ 8.9	---	---
Oxidation (PA)	%	47	76	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	---	---
Soot %	%	█ 0.3	█ 0.6	---	---
Nitration (PA)	%	62	68	---	---
Sulfation (PA)	%	49	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.6	<1.0	---	---
Silicon	ppm	█ 7	█ 26	---	---
Sodium	ppm	█ 2	█ 9	---	---
Potassium	ppm	█ 2	█ 5	---	---



WEAR METALS

Iron	ppm	█ 20	█ 48	---	---
Copper	ppm	█ 3	█ 13	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 2	█ 5	---	---
Aluminum	ppm	█ 6	█ 27	---	---
Chromium	ppm	█ 2	█ 5	---	---
Molybdenum	ppm	█ 23	█ 49	---	---
Nickel	ppm	█ 1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 2	█ 8	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1624	█ 1776	---	---
Magnesium	ppm	█ 264	█ 712	---	---
Zinc	ppm	█ 975	█ 1318	---	---
Phosphorus	ppm	█ 790	█ 1095	---	---
Barium	ppm	█ 2	█ 4	---	---
Boron	ppm	█ 10	█ 48	---	---

Depot: VOLVO8879
Unique No: 10900920
Signed: Wes Davis
Report Date: 04 Mar 2024

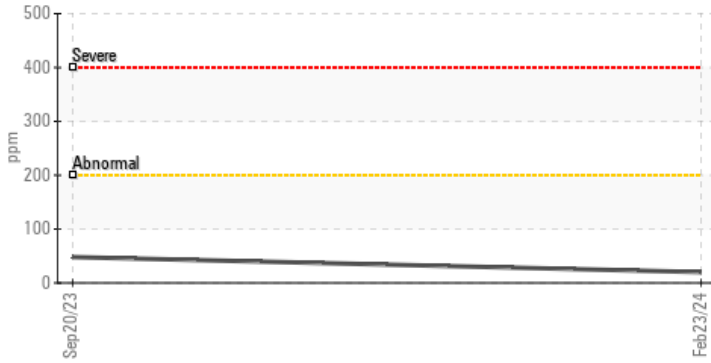


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GRAPHS

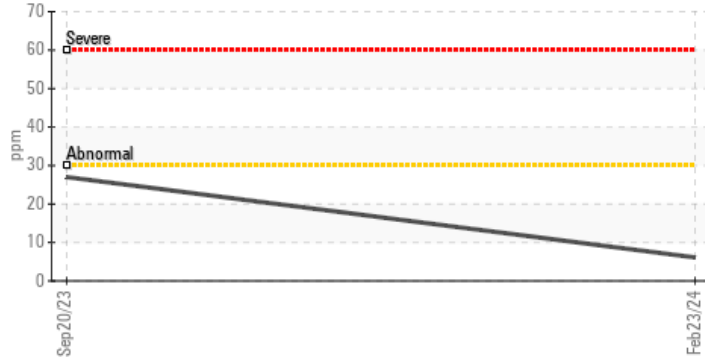
Iron (ppm)



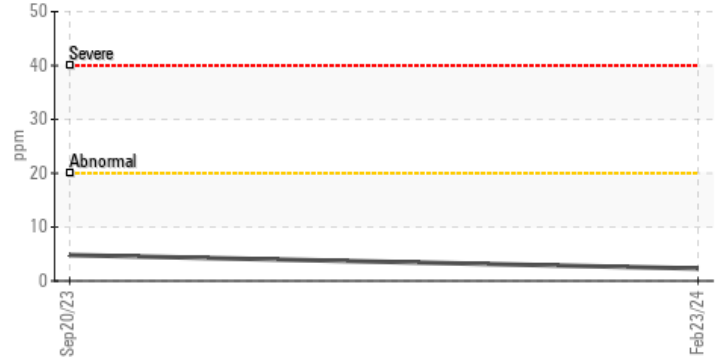
Lead (ppm)



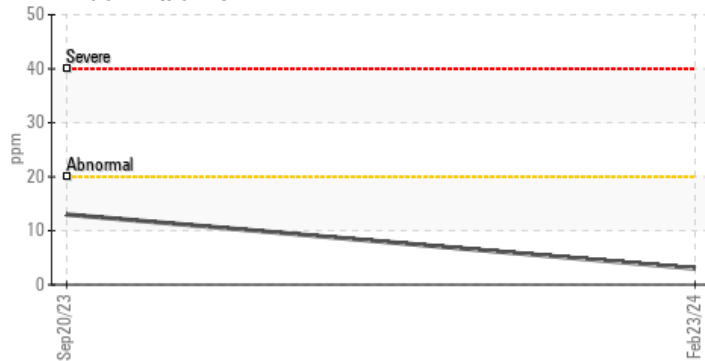
Aluminum (ppm)



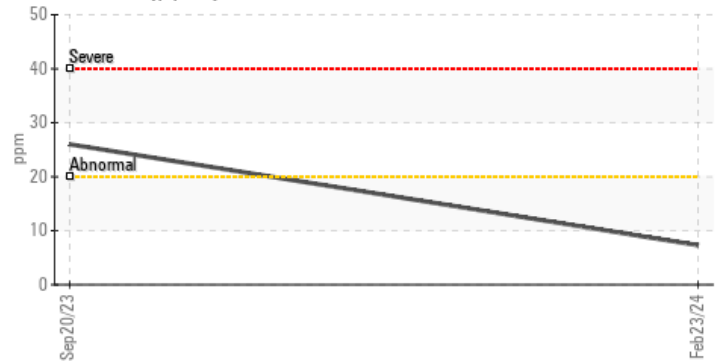
Chromium (ppm)



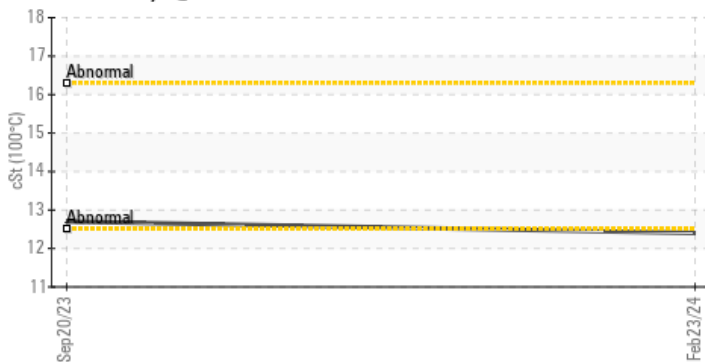
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

