



CONSTRUCTION EQUIPMENT

A11437 JMC VOLVO SD-122 DX TF 197647 - DIESEL ENGINE



Sample No: VCP434146
Oil Type: MOBIL 15W40
Job No: A11437 JMC



SAMPLE INFORMATION

Sample Number	VCP434146	VCP271757	---	---
Sample Date	06 Nov 2023	27 Apr 2020	---	---
Machine Hours	4540	4470	---	---
Oil Hours	200	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	SEVERE	---	---

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.7	---	---
Base Number (BN)	mg KOH/g	9.6	---	---	---
Oxidation (PA)	%	70	51	---	---

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

Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	53	43	---	---
Sulfation (PA)	%	58	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	88	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	3	0	---	---



WEAR METALS

Iron	ppm	39	160	---	---
Copper	ppm	1	2	---	---
Lead	ppm	0	2	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	3	18	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	37	103	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1558	1986	---	---
Magnesium	ppm	505	343	---	---
Zinc	ppm	1015	1158	---	---
Phosphorus	ppm	905	1095	---	---
Barium	ppm	7	0	---	---
Boron	ppm	95	343	---	---

Depot: VOLVO8879
Unique No: 10737790
Signed: Wes Davis
Report Date: 10 Nov 2023

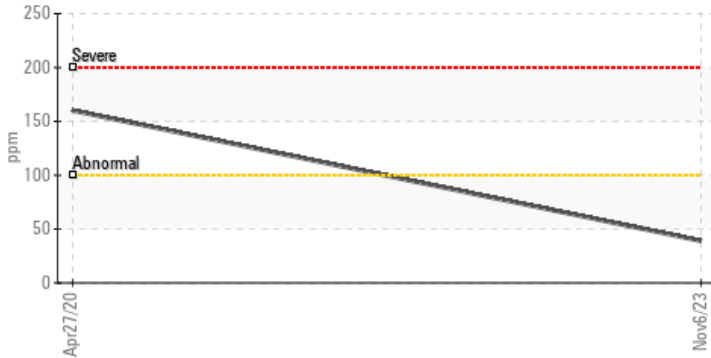


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GRAPHS

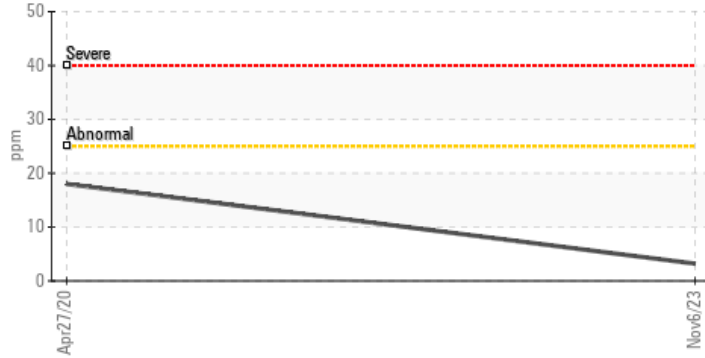
Iron (ppm)



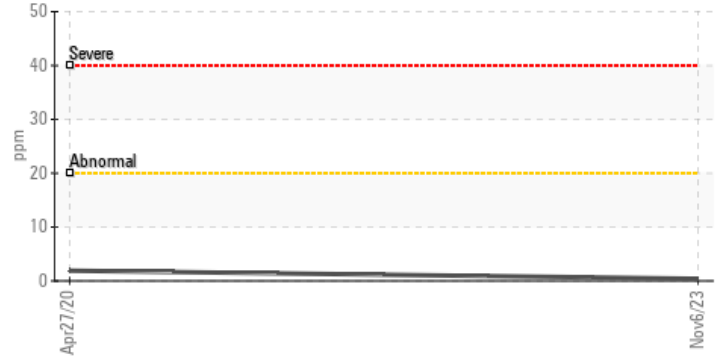
Lead (ppm)



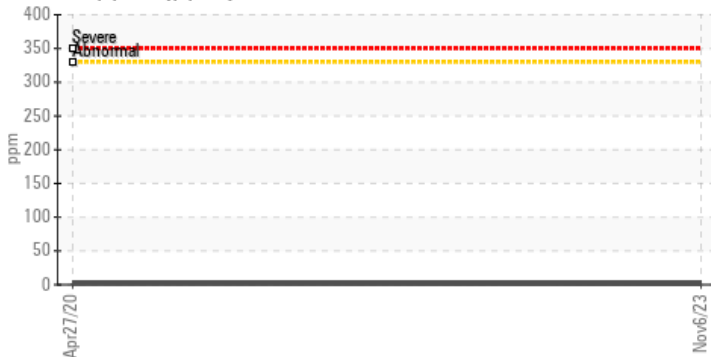
Aluminum (ppm)



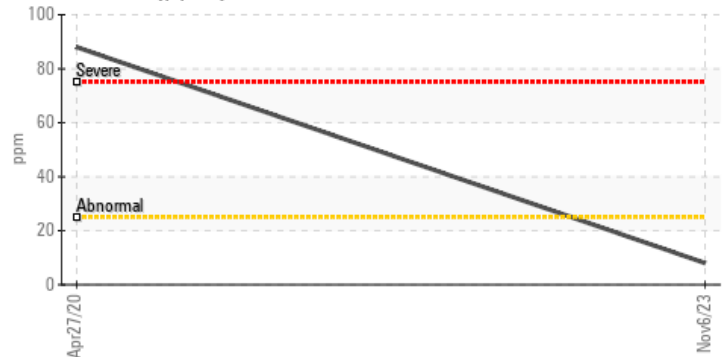
Chromium (ppm)



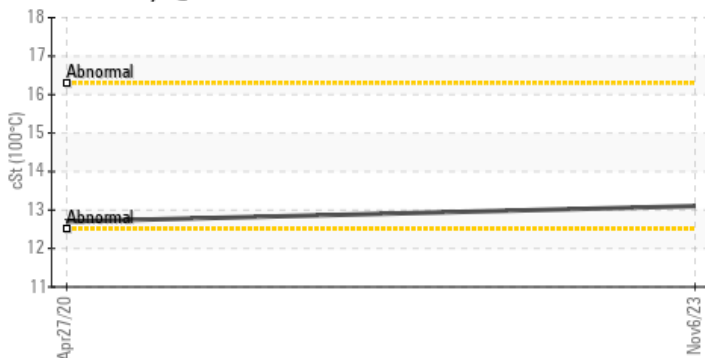
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

