



CONSTRUCTION EQUIPMENT

SPM659962-10 VOLVO A45G 752124 - DIESEL ENGINE



Sample No: VCP421350
Oil Type: {unknown}
Job No: SPM659962-10



SAMPLE INFORMATION

Sample Number	VCP421350	---	---	---
Sample Date	17 Jan 2024	---	---	---
Machine Hours	579	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY
5151 DR MARTIN LUTHER KING BLVD
FORT MYERS, FL
US 33905
Contact: TODD LARK
tlark@altaequipfl.com
T:
F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	10.8	---	---	---
Base Number (BN)	mg KOH/g	5.3	---	---	---
Oxidation (PA)	%	58	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.3	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.2	---	---	---
Silicon	ppm	24	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---



WEAR METALS

Iron	ppm	18	---	---	---
Copper	ppm	359	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	5	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	82	---	---	---
Nickel	ppm	4	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	2059	---	---	---
Magnesium	ppm	51	---	---	---
Zinc	ppm	1176	---	---	---
Phosphorus	ppm	1045	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	26	---	---	---

Depot: VOLVO0090
Unique No: 10857573
Signed: Jonathan Hester
Report Date: 02 Feb 2024

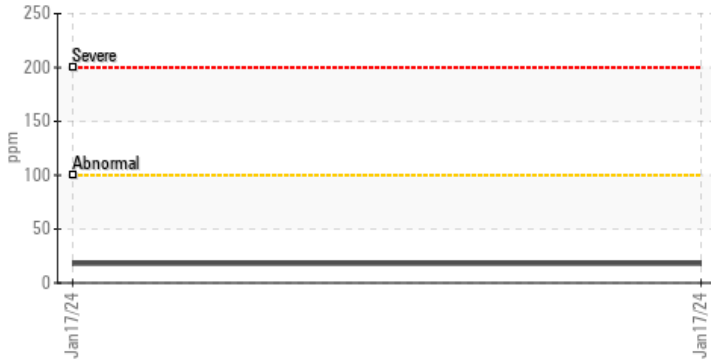


CONSTRUCTION EQUIPMENT



GRAPHS

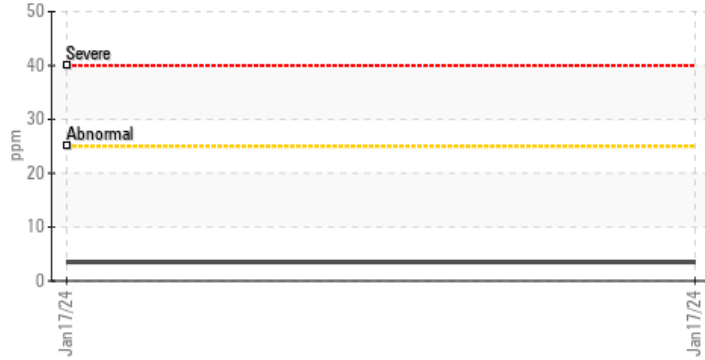
Iron (ppm)



Lead (ppm)



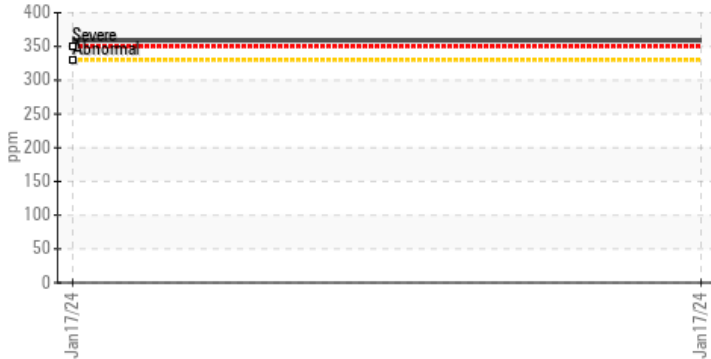
Aluminum (ppm)



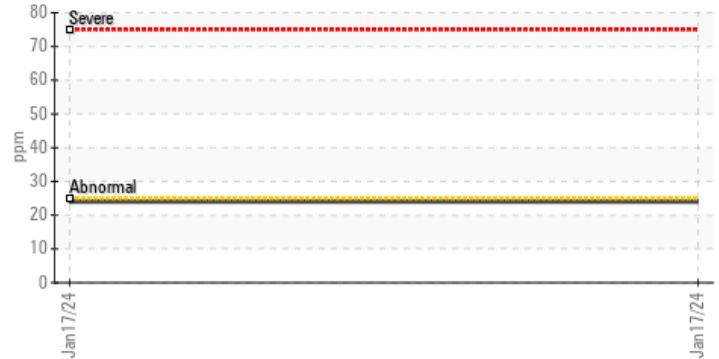
Chromium (ppm)



▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

