



CONSTRUCTION EQUIPMENT

SWA508892 VOLVO EC220EL 314443 - BOGIE/CENTER LEFT FINAL DRIVE



Sample No: VCP370393
Oil Type: GEAR OIL SAE 80W90
Job No: SWA508892



SAMPLE INFORMATION

Sample Number	VCP370393	VCP372770	---	---
Sample Date	21 Mar 2024	13 May 2022	---	---
Machine Hours	4766	2084	---	---
Oil Hours	766	0	---	---
Oil Changed	Not Chngd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	143	145	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	833	739	---	---
Sodium	ppm	13	13	---	---
Potassium	ppm	64	62	---	---



WEAR METALS

Iron	ppm	1983	1323	---	---
Copper	ppm	2	1	---	---
Lead	ppm	1	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	173	120	---	---
Chromium	ppm	13	15	---	---
Molybdenum	ppm	3	2	---	---
Nickel	ppm	7	4	---	---
Titanium	ppm	14	13	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	18	17	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	45	42	---	---
Magnesium	ppm	29	31	---	---
Zinc	ppm	17	8	---	---
Phosphorus	ppm	1020	931	---	---
Barium	ppm	2	0	---	---
Boron	ppm	204	146	---	---

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 condition of the oil is acceptable for the time in service.

Depot: VOLV00142
Unique No: 10942404
Signed: Wes Davis
Report Date: 26 Mar 2024

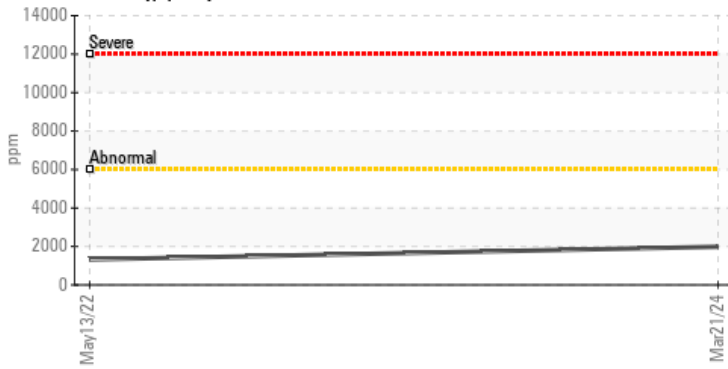


CONSTRUCTION EQUIPMENT

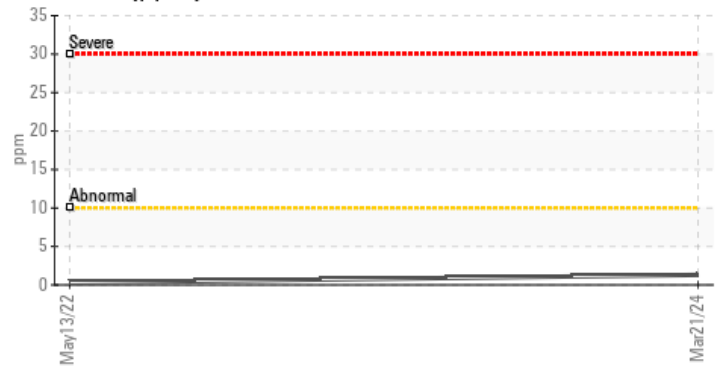


GRAPHS

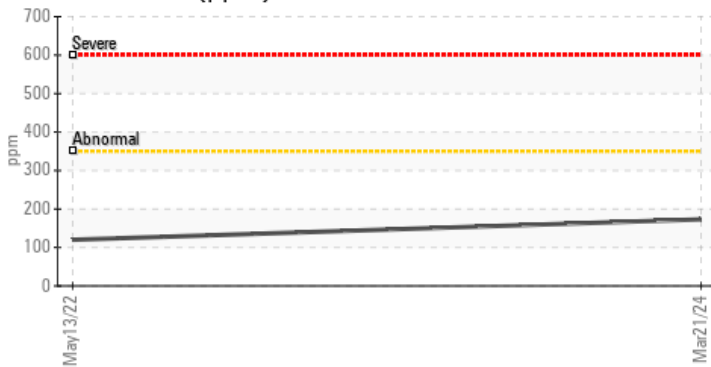
Iron (ppm)



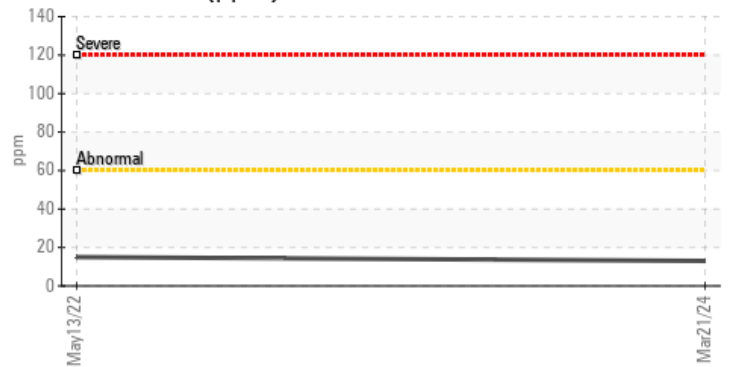
Lead (ppm)



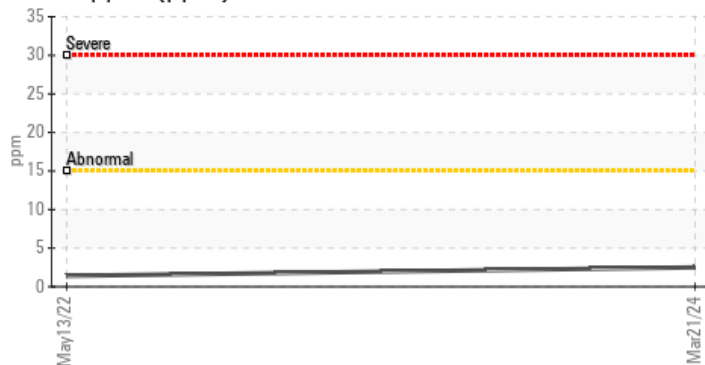
Aluminum (ppm)



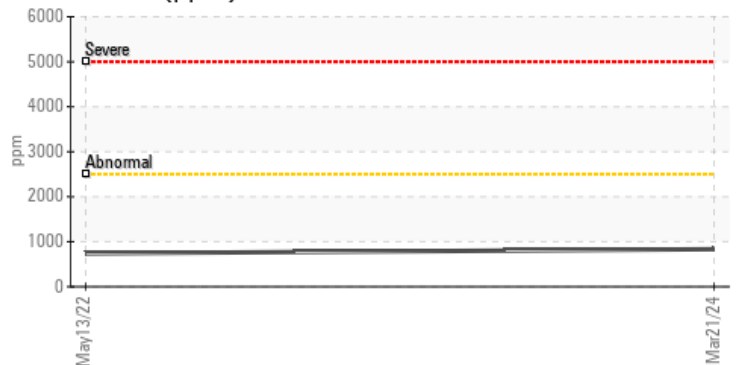
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

