



CONSTRUCTION EQUIPMENT

VOLVO EC220 310773 - FRONT RIGHT FINAL DRIVE



Sample No: VCP433532
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP433532	VCP275902	---	---
Sample Date	17 Oct 2023	01 May 2020	---	---
Machine Hours	1984	946	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---

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 @ 40°C	cSt	386	309	---	---
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CONTAMINATION

Silicon	ppm	2138	28	---	---
Sodium	ppm	7	<1	---	---
Potassium	ppm	23	0	---	---



WEAR METALS

Iron	ppm	4133	196	---	---
Copper	ppm	5	<1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	106	<1	---	---
Chromium	ppm	40	2	---	---
Molybdenum	ppm	2	0	---	---
Nickel	ppm	22	2	---	---
Titanium	ppm	8	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	34	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	847	16	---	---
Magnesium	ppm	62	0	---	---
Zinc	ppm	24	8	---	---
Phosphorus	ppm	1020	828	---	---
Barium	ppm	0	0	---	---
Boron	ppm	108	113	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0090
Unique No: 10701572
Signed: Jonathan Hester
Report Date: 24 Oct 2023

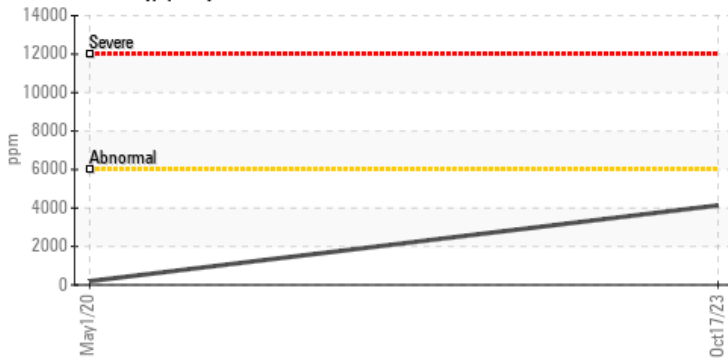


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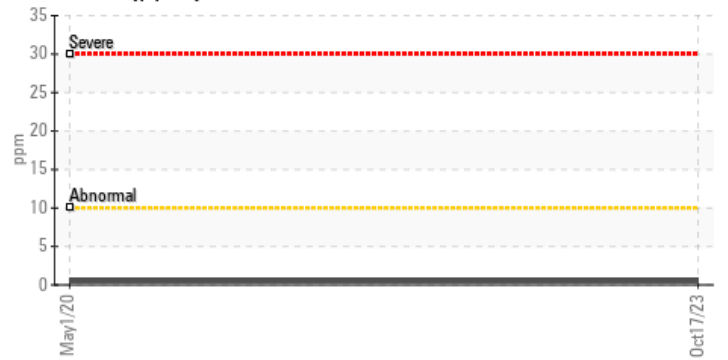


GRAPHS

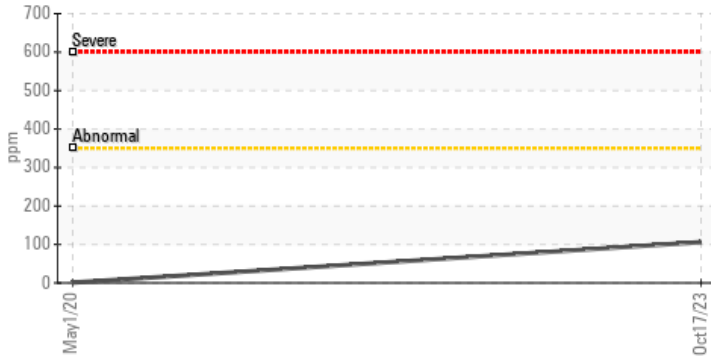
▲ Iron (ppm)



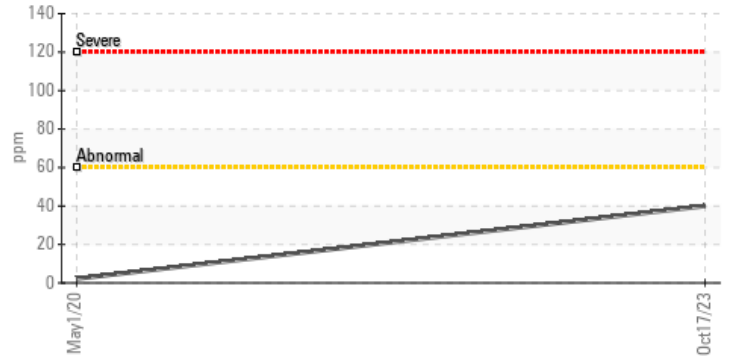
Lead (ppm)



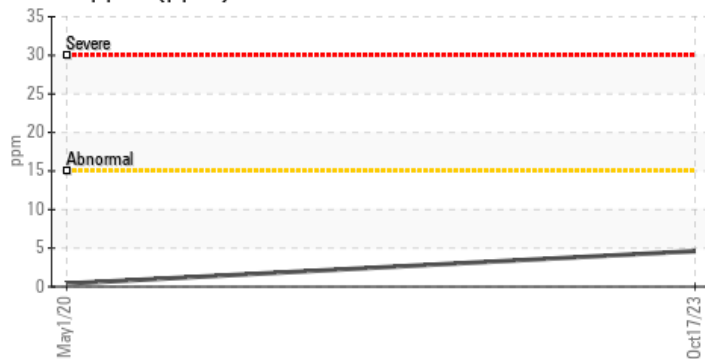
▲ Aluminum (ppm)



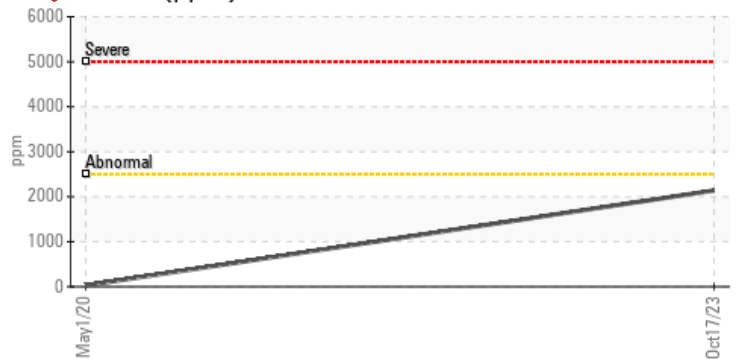
Chromium (ppm)



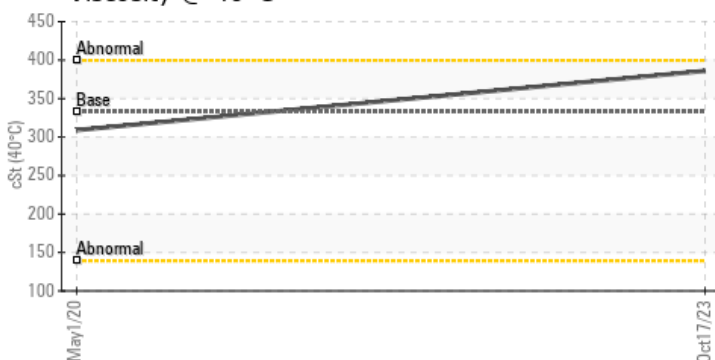
Copper (ppm)



◆ Silicon (ppm)



Viscosity @ 40°C



▲ Additives

