



CONSTRUCTION EQUIPMENT

VOLVO EC220EL 314599 - FRONT LEFT FINAL DRIVE



Sample No: VCP417773
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP417773	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	1187	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

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	▲ 179	---	---	---
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CONTAMINATION

Silicon	ppm	■ 14	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 9	---	---	---



WEAR METALS

Iron	ppm	■ 297	---	---	---
Copper	ppm	■ 0	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 5	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	▲ 10	---	---	---
Magnesium	ppm	■ 1	---	---	---
Zinc	ppm	▲ 14	---	---	---
Phosphorus	ppm	▲ 291	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	▲ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLV00142
Unique No: 10603761
Signed: Jonathan Hester
Report Date: 16 Aug 2023

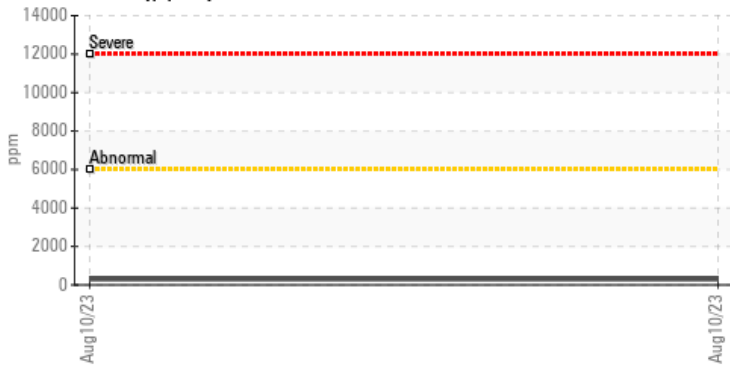


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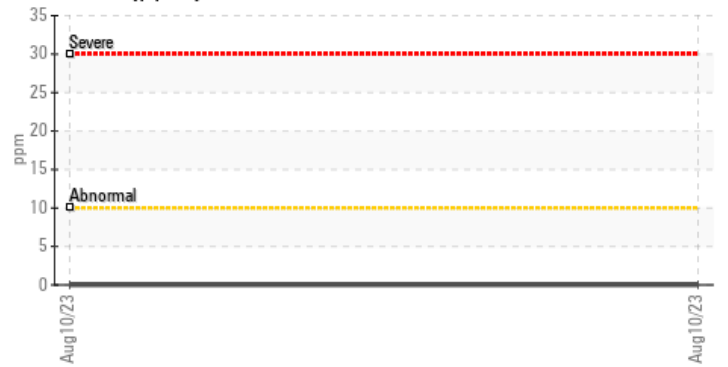


GRAPHS

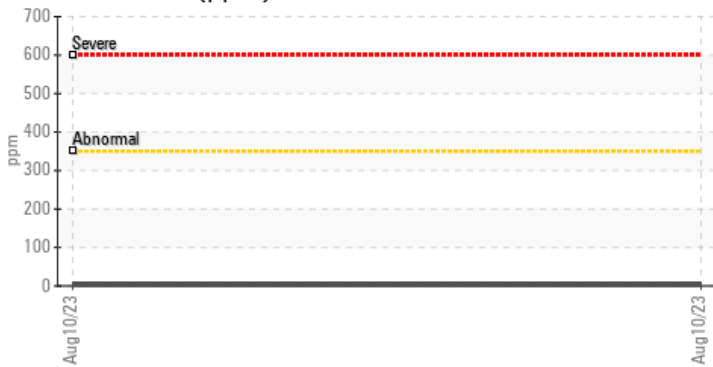
Iron (ppm)



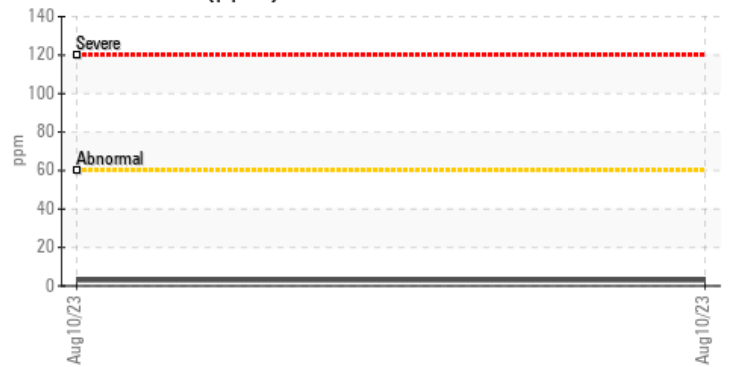
Lead (ppm)



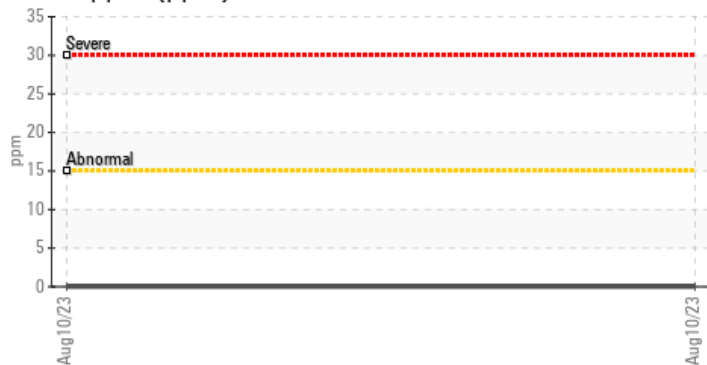
Aluminum (ppm)



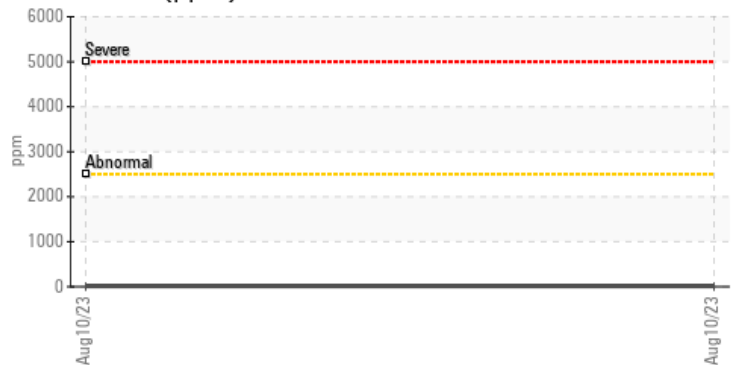
Chromium (ppm)



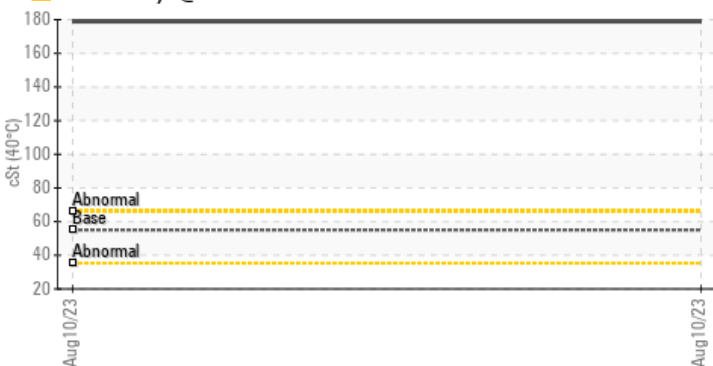
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives

