CONSTRUCTION EQUIPMENT

SPM646333-10 VOLVO EC380EL 315514 - DIESEL ENGINE

Sample No: VCP422228
Oil Type: NOT GIVEN
Job No: SPM646333-10

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

SAMPLE INFORMATION

Sample Number		**VCP422228**	---	---	---
Sample Date		**11 Dec 2023**	---	---	---
Machine Hours		**898**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**10.2**	---	---	---
Base Number (BN)	mg KOH/g	**4.8**	---	---	---
Oxidation (PA)	%	**70**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**82**	---	---	---
Sulfation (PA)	%	**62**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**0.5**	---	---	---
Silicon	ppm	**36**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**6**	---	---	---

WEAR METALS

Iron	ppm	**16**	---	---	---
Copper	ppm	**170**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**3**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**86**	---	---	---
Nickel	ppm	**2**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**3**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**2165**	---	---	---
Magnesium	ppm	**48**	---	---	---
Zinc	ppm	**1153**	---	---	---
Phosphorus	ppm	**979**	---	---	---
Barium	ppm	**13**	---	---	---
Boron	ppm	**10**	---	---	---

Diagnosis

No corrective action is recommended at this time. 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. 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.

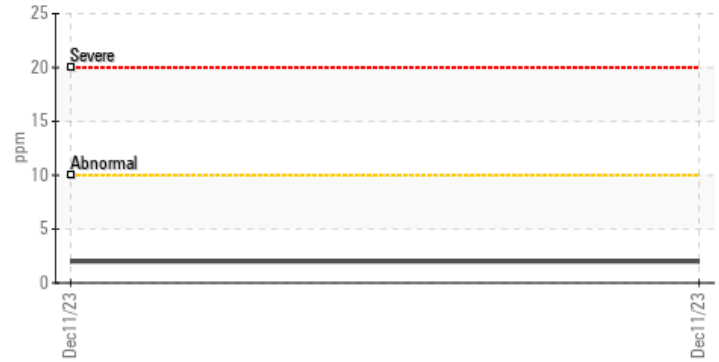
Depot: VOLVO0090
Unique No: 10790341
Signed: Jonathan Hester
Report Date: 20 Dec 2023

GRAPHS

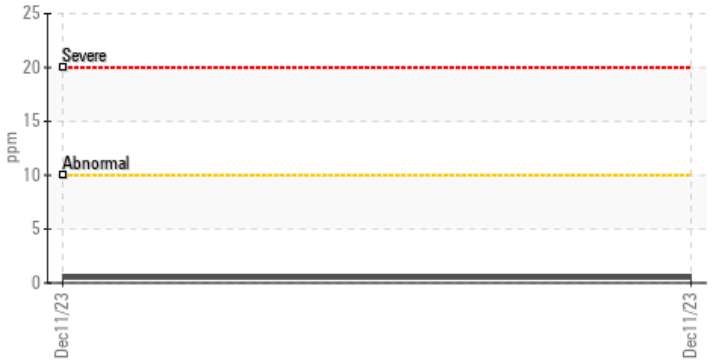
Iron (ppm)

Lead (ppm)

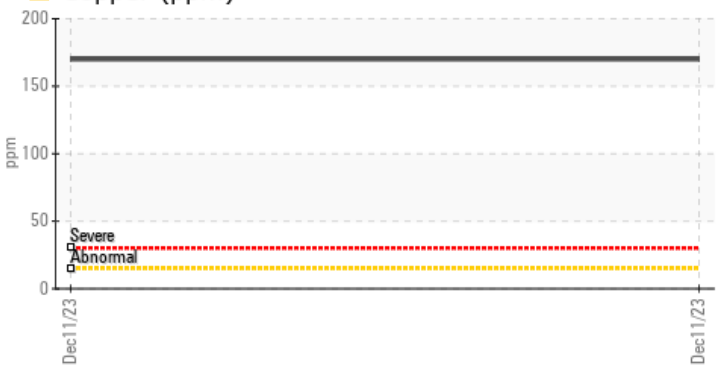
Aluminum (ppm)



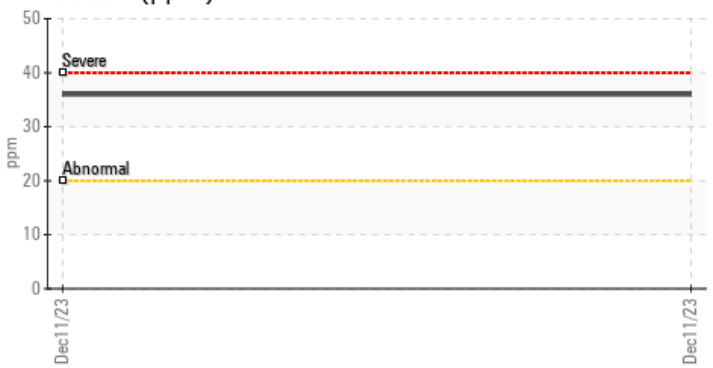
Chromium (ppm)



▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C

Base Number