



CONSTRUCTION EQUIPMENT

661924 ALTA RENTS VOLVO EC480 315325 - DIESEL ENGINE



Sample No: VCP438951
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661924 ALTA RENTS



SAMPLE INFORMATION

Sample Number	VCP438951	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	600	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.7	---	---	---
Base Number (BN)	mg KOH/g	■ 4.7	---	---	---
Oxidation (PA)	%	68	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	82	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	■ 0.0	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	■ 31	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 15	---	---	---
Copper	ppm	▲ 138	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 87	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2180	---	---	---
Magnesium	ppm	25	---	---	---
Zinc	ppm	■ 1199	---	---	---
Phosphorus	ppm	■ 983	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 13	---	---	---

Depot: VOLVO0096
Unique No: 10861603
Signed: Doug Bogart
Report Date: 08 Feb 2024

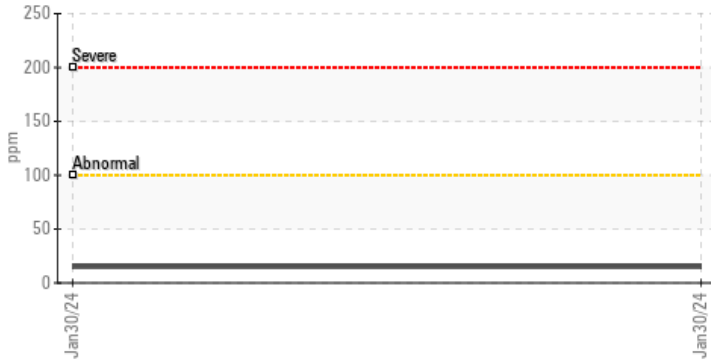


CONSTRUCTION EQUIPMENT

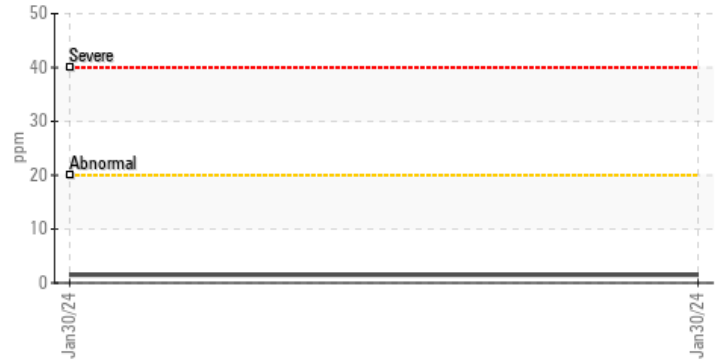


GRAPHS

Iron (ppm)



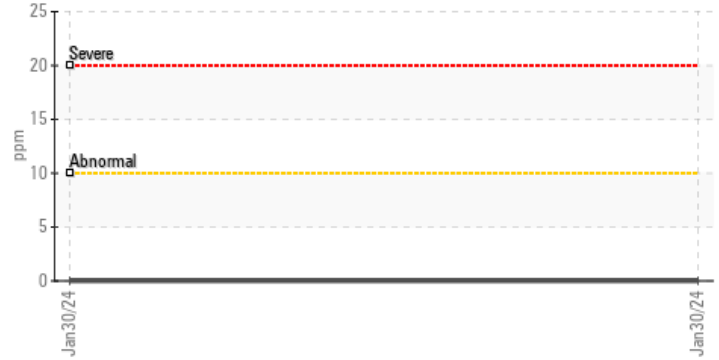
Lead (ppm)



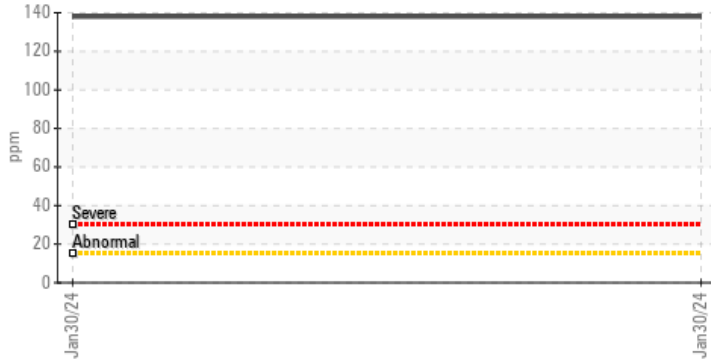
Aluminum (ppm)



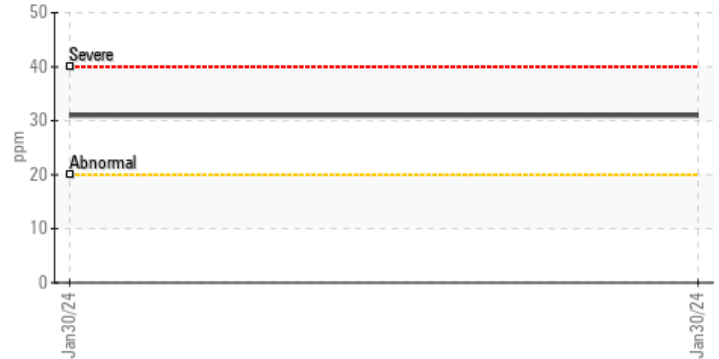
Chromium (ppm)



▲ Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

