CONSTRUCTION EQUIPMENT

X48504 VOLVO A25G 752686 - DIESEL ENGINE

Sample No: VCP414619
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: X48504

SCOTT EQUIPMENT COMPANY LLC - Lake Charles
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LAKE CHARLES, LA
US 70616
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SAMPLE INFORMATION

Sample Number		**VCP414619**	---	---	---
Sample Date		**07 Feb 2024**	---	---	---
Machine Hours		**768**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ **10.7**	---	---	---
Base Number (BN)	mg KOH/g	■ **5.1**	---	---	---
Oxidation (PA)	%	**56**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	■ **0.3**	---	---	---
Nitration (PA)	%	**80**	---	---	---
Sulfation (PA)	%	**55**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	■ **0.4**	---	---	---
Silicon	ppm	■ **68**	---	---	---
Sodium	ppm	■ **5**	---	---	---
Potassium	ppm	■ **4**	---	---	---

WEAR METALS

Iron	ppm	■ **43**	---	---	---
Copper	ppm	▲ **342**	---	---	---
Lead	ppm	■ **4**	---	---	---
Tin	ppm	■ **4**	---	---	---
Aluminum	ppm	■ **3**	---	---	---
Chromium	ppm	■ **<1**	---	---	---
Molybdenum	ppm	■ **81**	---	---	---
Nickel	ppm	▲ **27**	---	---	---
Titanium	ppm	■ **<1**	---	---	---
Silver	ppm	■ **1**	---	---	---
Manganese	ppm	■ **7**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	■ **2320**	---	---	---
Magnesium	ppm	■ **12**	---	---	---
Zinc	ppm	■ **1176**	---	---	---
Phosphorus	ppm	■ **1027**	---	---	---
Barium	ppm	■ **<1**	---	---	---
Boron	ppm	■ **40**	---	---	---

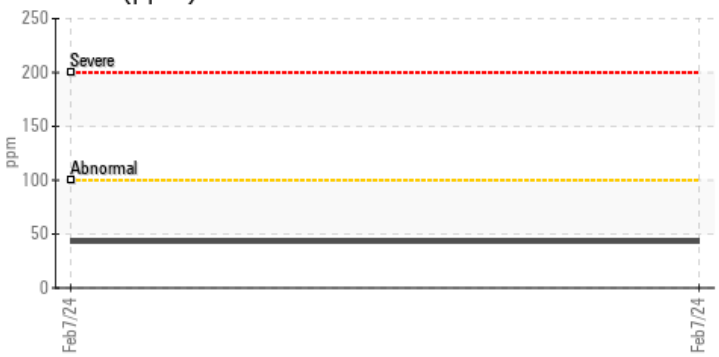
Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. The nickel 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.

Depot: VOLVO6244
Unique No: 10874378
Signed: Jonathan Hester
Report Date: 14 Feb 2024

GRAPHS

Iron (ppm)



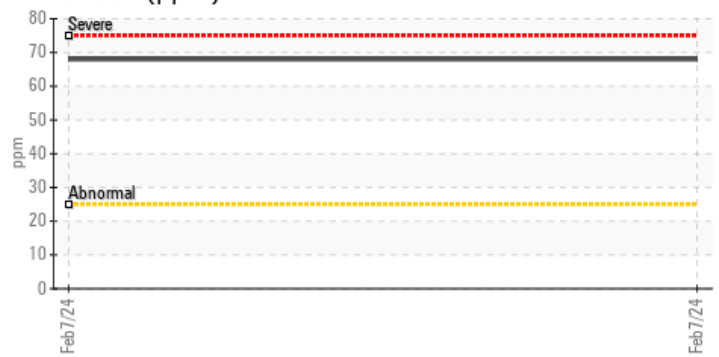
Lead (ppm)

Aluminum (ppm)

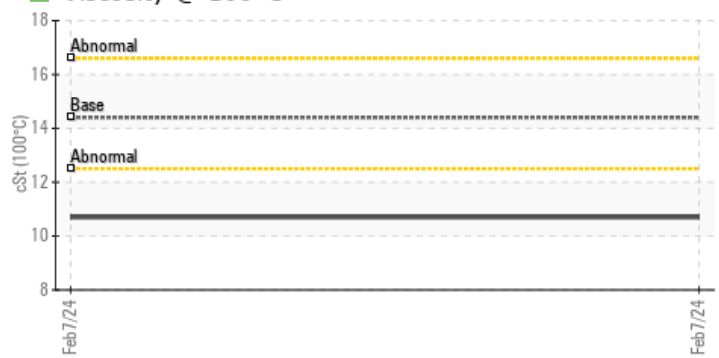
Chromium (ppm)

▲ Copper (ppm)

Silicon (ppm)



▲ Viscosity @ 100°C



Base Number