



CONSTRUCTION EQUIPMENT

10132 MULFORD VOLVO A30G 752766 - DIESEL ENGINE



Sample No: VCP432267
Oil Type: CHEVRON 15W40
Job No: 10132 MULFORD



SAMPLE INFORMATION

Sample Number	VCP432267	VCP408495	---	---
Sample Date	16 Jan 2024	03 May 2023	---	---
Machine Hours	1548	698	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 10.4	---	---
Base Number (BN)	mg KOH/g	■ 5.3	■ 4.9	---	---
Oxidation (PA)	%	69	57	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.7	■ 0.3	---	---
Nitration (PA)	%	69	76	---	---
Sulfation (PA)	%	70	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	◆ 113	▲ 41	---	---
Sodium	ppm	■ 3	■ 4	---	---
Potassium	ppm	■ 11	■ 6	---	---



WEAR METALS

Iron	ppm	■ 173	■ 35	---	---
Copper	ppm	▲ 87	▲ 471	---	---
Lead	ppm	■ 2	■ 4	---	---
Tin	ppm	■ 3	■ 4	---	---
Aluminum	ppm	▲ 30	■ 5	---	---
Chromium	ppm	■ 8	■ 2	---	---
Molybdenum	ppm	■ 98	■ 85	---	---
Nickel	ppm	■ 3	■ 3	---	---
Titanium	ppm	2	<1	---	---
Silver	ppm	■ 0	■ 1	---	---
Manganese	ppm	■ 4	■ 5	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	■ 1593	■ 2270	---	---
Magnesium	ppm	■ 399	36	---	---
Zinc	ppm	■ 1308	■ 1237	---	---
Phosphorus	ppm	■ 1067	■ 998	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 166	■ 44	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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 component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLV00150
Unique No: 10845562
Signed: Sean Felton
Report Date: 25 Jan 2024

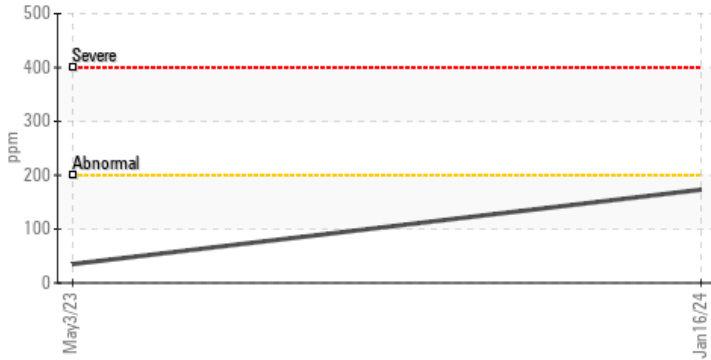


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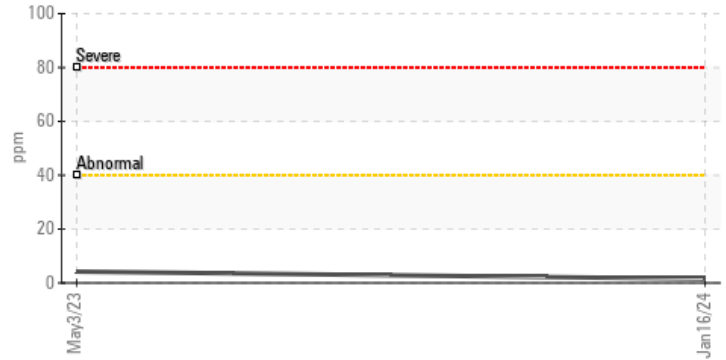


GRAPHS

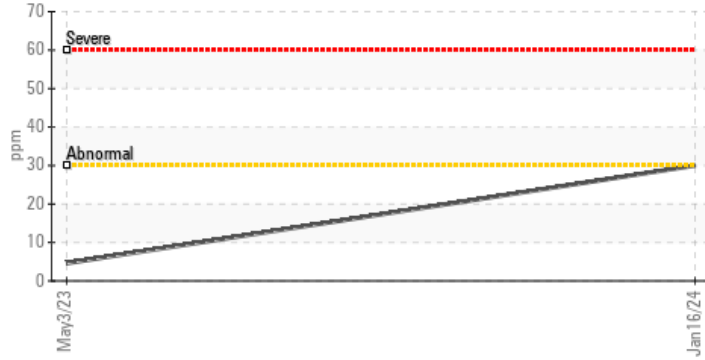
Iron (ppm)



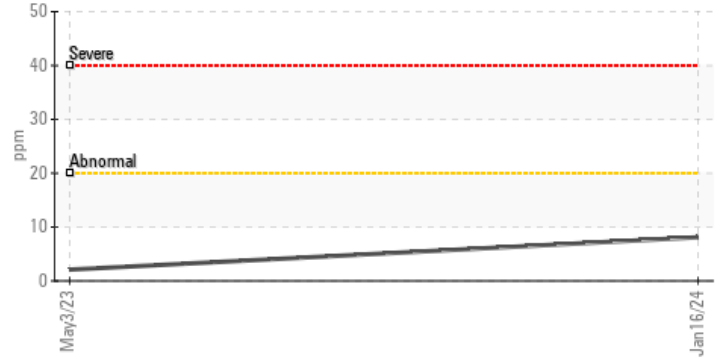
Lead (ppm)



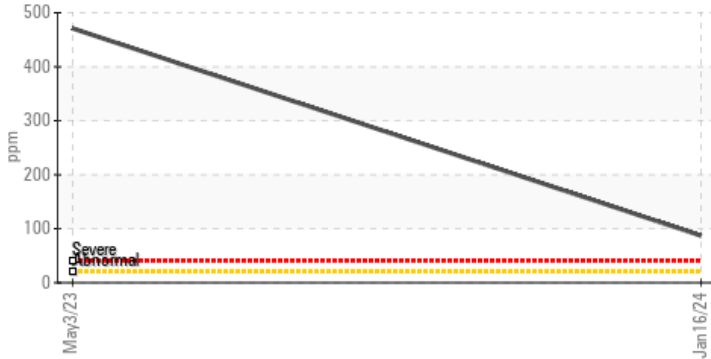
Aluminum (ppm)



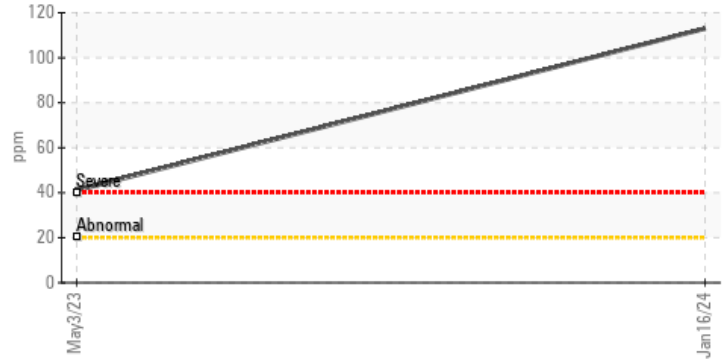
Chromium (ppm)



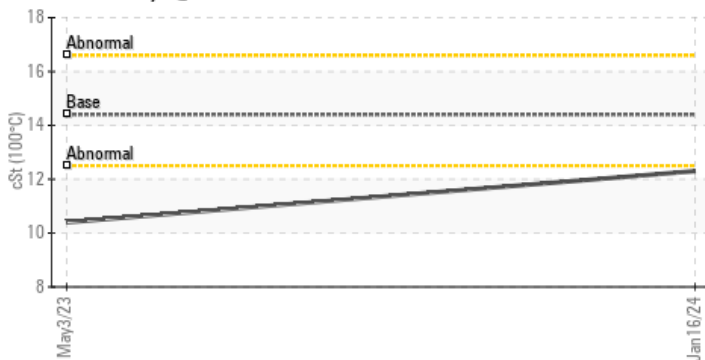
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

