



CONSTRUCTION EQUIPMENT

BABCOCK RANCH VOLVO A45G 352808 - REAR AXLE



Sample No: VCP436718
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: BABCOCK RANCH



SAMPLE INFORMATION

Sample Number	VCP436718	VCP436142	---	---
Sample Date	19 Apr 2024	17 Feb 2024	---	---
Machine Hours	4322	4096	---	---
Oil Hours	322	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	SEVERE	ATTENTION	---	---

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 FORT MYERS, FL
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	848	49.6	---	---
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CONTAMINATION

Water	%	▲ 29.2	NEG	---	---
Silicon	ppm	▲ 9857	42	---	---
Sodium	ppm	■ 8	2	---	---
Potassium	ppm	■ 45	3	---	---



WEAR METALS

Iron	ppm	▲ 12417	668	---	---
Copper	ppm	■ 98	6	---	---
Lead	ppm	■ 3	0	---	---
Tin	ppm	■ 0	<1	---	---
Aluminum	ppm	● 868	6	---	---
Chromium	ppm	▲ 169	8	---	---
Molybdenum	ppm	■ 13	9	---	---
Nickel	ppm	▲ 77	3	---	---
Titanium	ppm	■ 126	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 99	19	---	---
Vanadium	ppm	4	0	---	---



ADDITIVES

Calcium	ppm	■ 520	84	---	---
Magnesium	ppm	■ 122	0	---	---
Zinc	ppm	■ 137	56	---	---
Phosphorus	ppm	■ 754	2355	---	---
Barium	ppm	■ 0	0	---	---
Boron	ppm	■ 71	131	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The iron, chrome and nickel levels are severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a very high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0090
Unique No: 10993486
Signed: Don Baldrige
Report Date: 25 Apr 2024

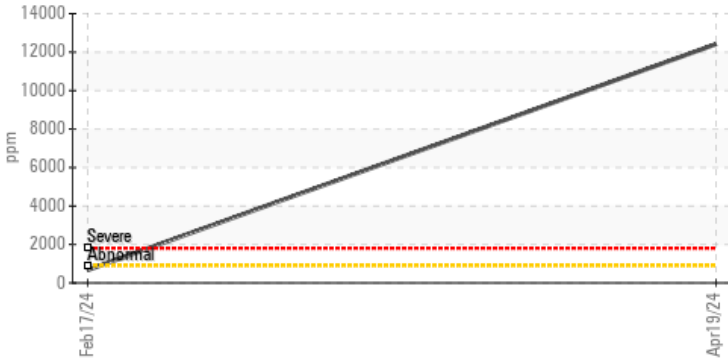


CONSTRUCTION EQUIPMENT

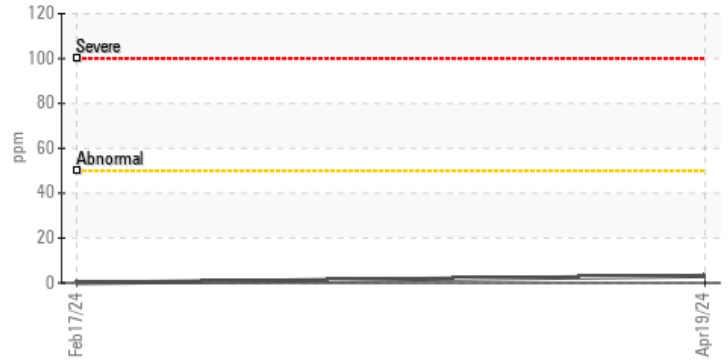


GRAPHS

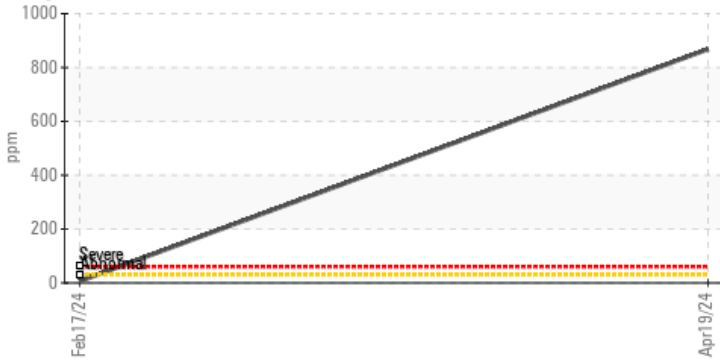
▲ Iron (ppm)



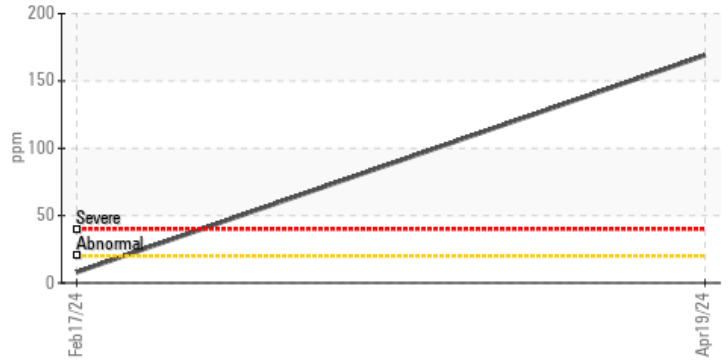
Lead (ppm)



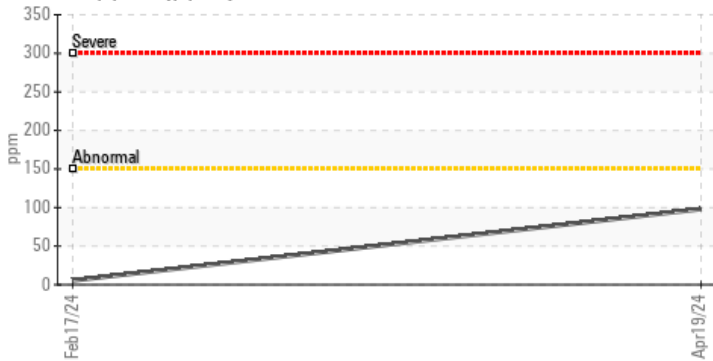
● Aluminum (ppm)



▲ Chromium (ppm)



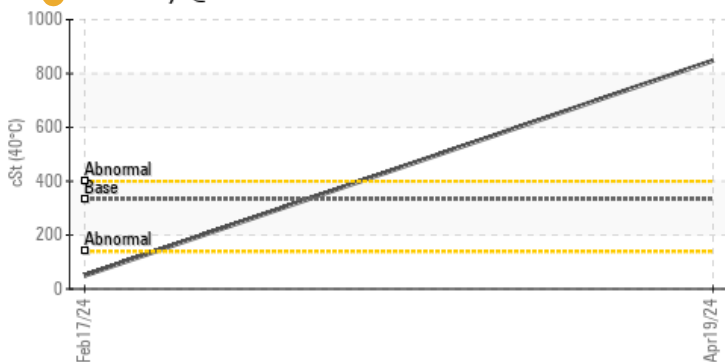
Copper (ppm)



▲ Silicon (ppm)



● Viscosity @ 40°C



▲ Water

