



# CONSTRUCTION EQUIPMENT

462431 WATER FRONT VOLVO A40G 342619 - DROP BOX



**Sample No:** VCP452356  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 462431 WATER FRONT



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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## SAMPLE INFORMATION

Sample Number	VCP452356	VCP426667	---	---
Sample Date	10 Feb 2024	12 Aug 2023	---	---
Machine Hours	7777	7325	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---



## OIL CONDITION

Visc @ 40°C	cSt	▲ 90.5	■ 154	---	---
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## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	■ 19	▲ 93	---	---
Sodium	ppm	■ <1	■ 6	---	---
Potassium	ppm	■ 0	■ 4	---	---



## WEAR METALS

Iron	ppm	■ 272	▲ 674	---	---
Copper	ppm	■ 7	■ 7	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 3	▲ 29	---	---
Chromium	ppm	■ 3	■ 9	---	---
Molybdenum	ppm	■ 8	■ 18	---	---
Nickel	ppm	■ 2	■ 4	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 3	■ 10	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	▲ 2195	■ 111	---	---
Magnesium	ppm	■ 26	■ 21	---	---
Zinc	ppm	▲ 912	■ 95	---	---
Phosphorus	ppm	■ 1038	■ 976	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 134	■ 64	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10875196  
**Signed:** Jonathan Hester  
**Report Date:** 15 Feb 2024

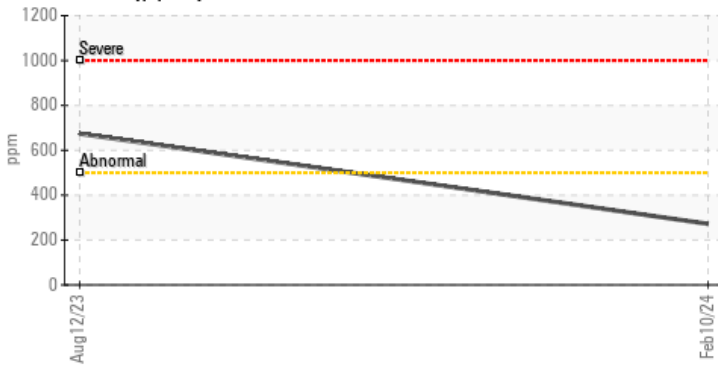


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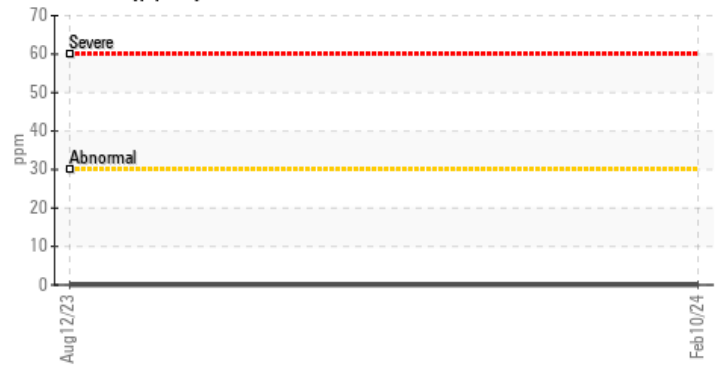


## GRAPHS

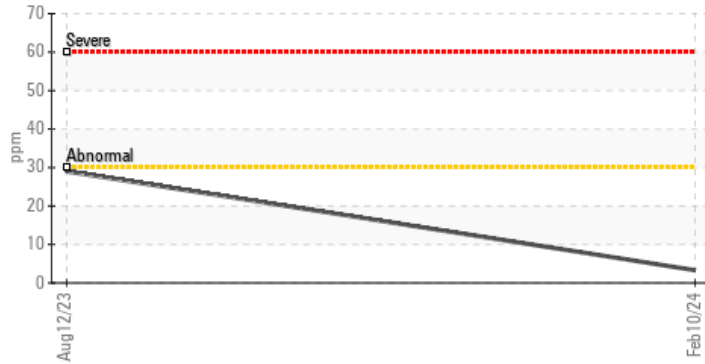
### Iron (ppm)



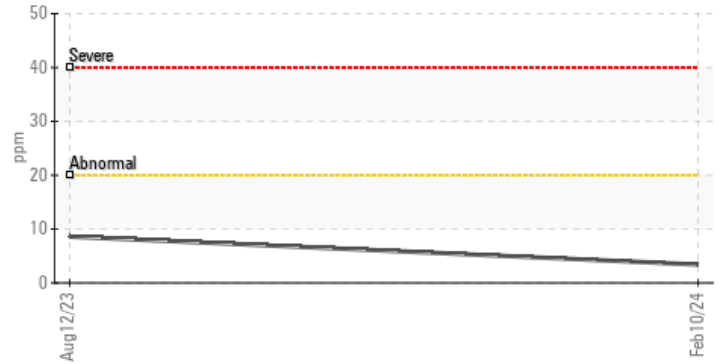
### Lead (ppm)



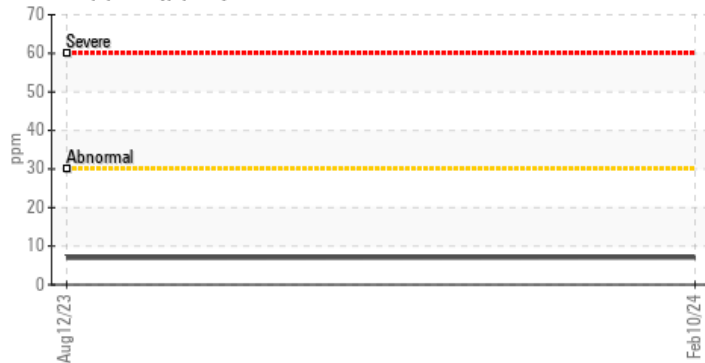
### Aluminum (ppm)



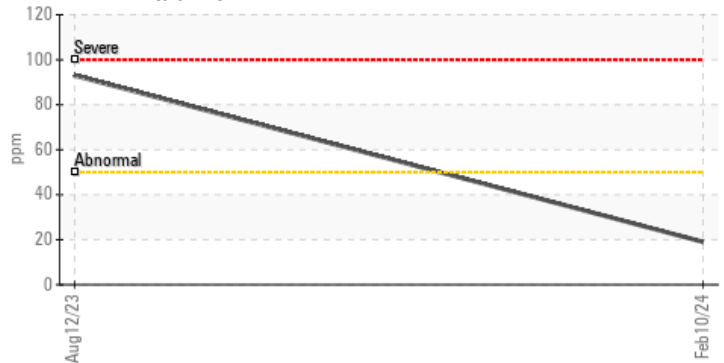
### Chromium (ppm)



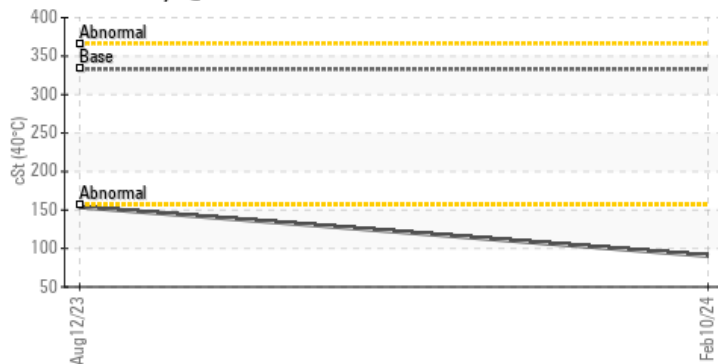
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

