



# CONSTRUCTION EQUIPMENT

687085 DIPRO MCCLOSKEY 4080 78953 - DIESEL ENGINE



**Sample No:** VCP438823  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 687085 DIPRO



## SAMPLE INFORMATION

Sample Number	<b>VCP438823</b>	VCP426590	---	---
Sample Date	<b>27 Mar 2024</b>	06 Apr 2023	---	---
Machine Hours	<b>2253</b>	603	---	---
Oil Hours	<b>500</b>	603	---	---
Oil Changed	<b>Changed</b>	N/A	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 17.7</b>	▲ 11.7	---	---
Base Number (BN)	mg KOH/g	<b>▲ 2.1</b>	■ 5.8	---	---
Oxidation (PA)	%	<b>169</b>	85	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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 higher than normal. The BN level is low.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	■ <b>0.5</b>	■ 0.2	---	---
Nitration (PA)	%	<b>153</b>	74	---	---
Sulfation (PA)	%	<b>94</b>	67	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	▲ 2.3	---	---
Silicon	ppm	■ <b>11</b>	■ 16	---	---
Sodium	ppm	■ <b>8</b>	■ 4	---	---
Potassium	ppm	■ <b>&lt;1</b>	■ <1	---	---



## WEAR METALS

Iron	ppm	■ <b>75</b>	■ 23	---	---
Copper	ppm	■ <b>13</b>	■ 30	---	---
Lead	ppm	■ <b>&lt;1</b>	■ 0	---	---
Tin	ppm	■ <b>0</b>	■ 0	---	---
Aluminum	ppm	■ <b>6</b>	■ 4	---	---
Chromium	ppm	■ <b>1</b>	■ 0	---	---
Molybdenum	ppm	■ <b>62</b>	■ 83	---	---
Nickel	ppm	■ <b>&lt;1</b>	■ 0	---	---
Titanium	ppm	<b>&lt;1</b>	0	---	---
Silver	ppm	■ <b>0</b>	■ 0	---	---
Manganese	ppm	■ <b>1</b>	■ 2	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



## ADDITIVES

Calcium	ppm	■ <b>1260</b>	■ 1482	---	---
Magnesium	ppm	■ <b>938</b>	■ 390	---	---
Zinc	ppm	■ <b>1285</b>	■ 1316	---	---
Phosphorus	ppm	■ <b>1097</b>	■ 1064	---	---
Barium	ppm	■ <b>0</b>	■ 0	---	---
Boron	ppm	■ <b>17</b>	322	---	---

**Depot:** VOLVO2990  
**Unique No:** 10968719  
**Signed:** Jonathan Hester  
**Report Date:** 16 Apr 2024

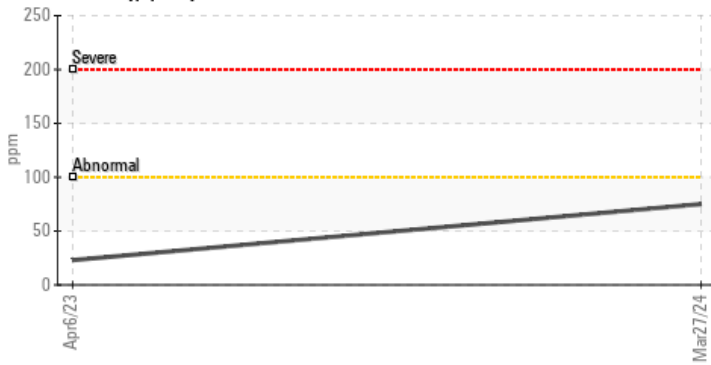


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## GRAPHS

### Iron (ppm)



### Lead (ppm)



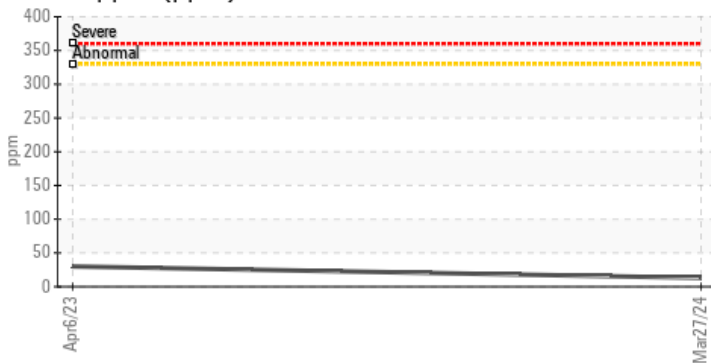
### Aluminum (ppm)



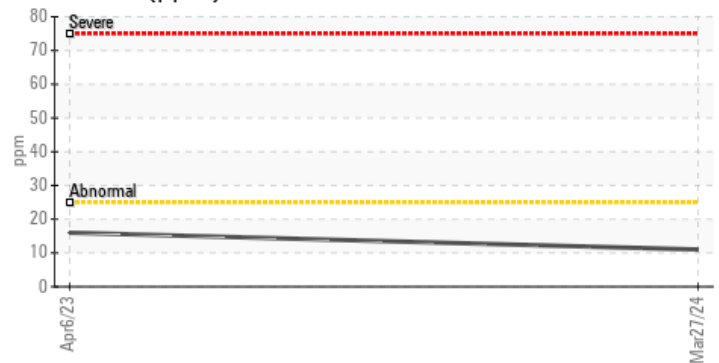
### Chromium (ppm)



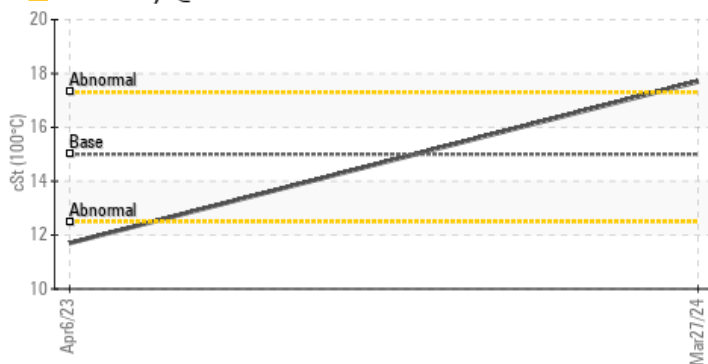
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### ▲ Base Number

