



# CONSTRUCTION EQUIPMENT

## 715855 MOSAIC VOLVO A40G 353384 - DIESEL ENGINE



**Sample No:** VCP455483  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 715855 MOSAIC



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### SAMPLE INFORMATION

Sample Number	VCP455483	VCP440007	VCP432155	---
Sample Date	14 May 2024	13 Jan 2024	02 Nov 2023	---
Machine Hours	2467	1699	1237	---
Oil Hours	500	0	1237	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	---



### OIL CONDITION

Visc @ 100°C	cSt	11.3	11.9	10.2	---
Base Number (BN)	mg KOH/g	8.0	8.8	4.0	---
Oxidation (PA)	%	63	80	70	---



### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.5	---
Nitration (PA)	%	70	68	96	---
Sulfation (PA)	%	55	62	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	2.6	---
Silicon	ppm	5	8	35	---
Sodium	ppm	2	1	4	---
Potassium	ppm	<1	0	3	---



### WEAR METALS

Iron	ppm	10	9	38	---
Copper	ppm	13	64	260	---
Lead	ppm	<1	0	<1	---
Tin	ppm	<1	1	5	---
Aluminum	ppm	2	2	4	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	57	44	89	---
Nickel	ppm	4	4	6	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	4	---
Vanadium	ppm	<1	0	<1	---



### ADDITIVES

Calcium	ppm	1213	1755	2207	---
Magnesium	ppm	904	434	22	---
Zinc	ppm	1219	1084	1211	---
Phosphorus	ppm	1045	925	935	---
Barium	ppm	0	0	0	---
Boron	ppm	2	31	9	---

### 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 lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 11071681  
**Signed:** Jonathan Hester  
**Report Date:** 13 Jun 2024

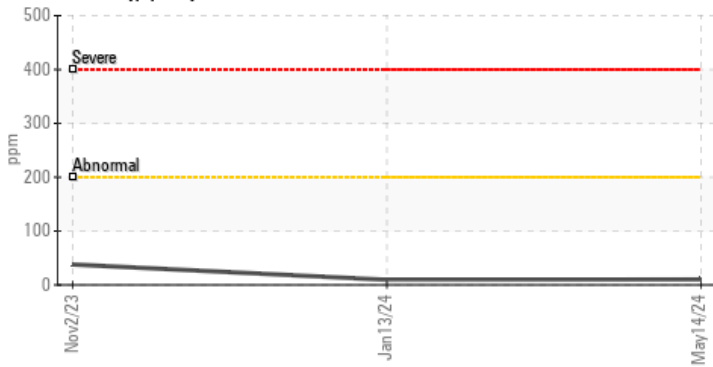


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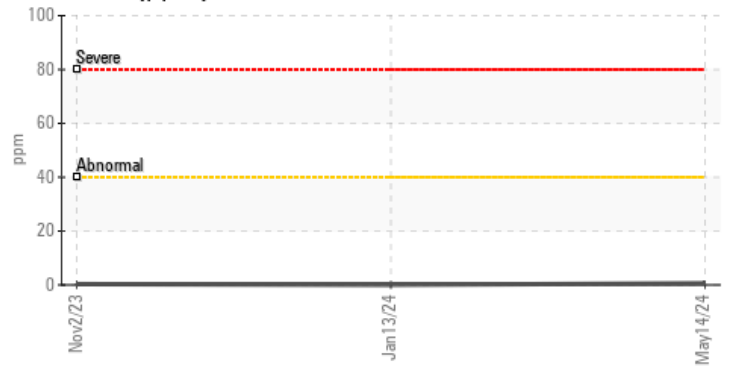


## GRAPHS

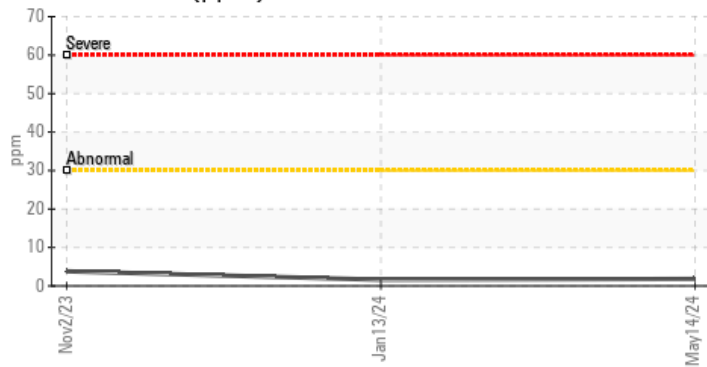
### Iron (ppm)



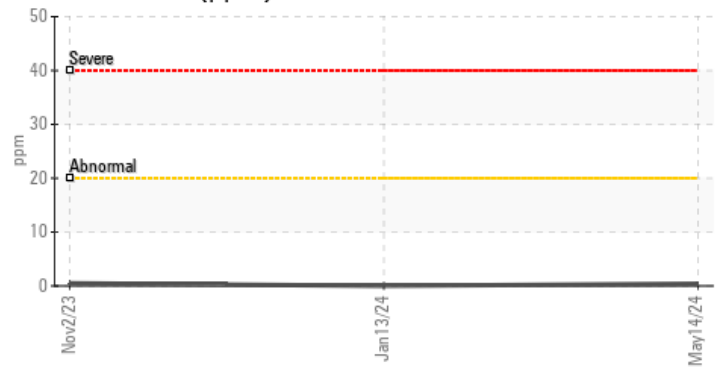
### Lead (ppm)



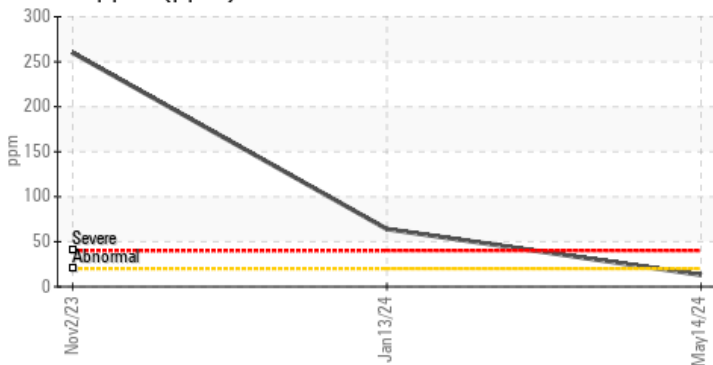
### Aluminum (ppm)



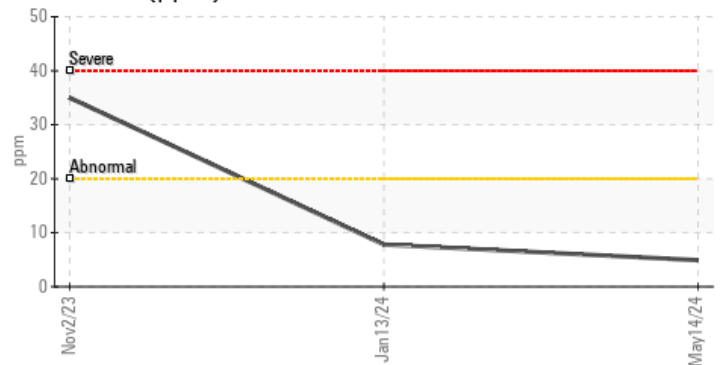
### Chromium (ppm)



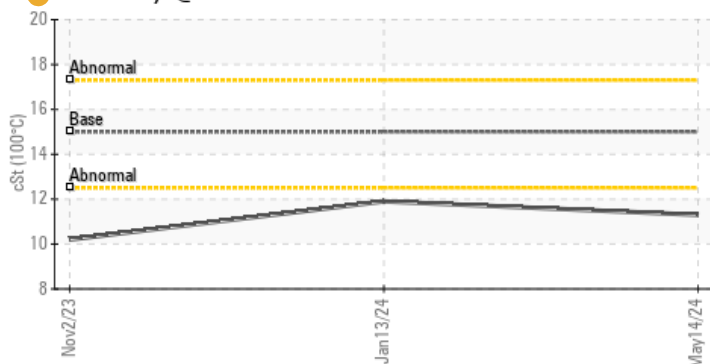
### Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 100°C



### Base Number

