



# CONSTRUCTION EQUIPMENT

SPM716242 RENTAL VOLVO A45G 352584 - DIESEL ENGINE



**Sample No:** VCP452534  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM716242 RENTAL



## SAMPLE INFORMATION

Sample Number	<b>VCP452534</b>	VCP339423	VCP345359	VCP314262
Sample Date	<b>16 May 2024</b>	28 Jan 2022	08 Nov 2021	25 Jun 2021
Machine Hours	<b>7880</b>	1998	1513	482
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**ALTA EQUIPMENT CO - ORLAND PARK**  
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US 46406  
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F:



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	12.7	13.2	10.8
Base Number (BN)	mg KOH/g	<b>7.2</b>	9.2	---	---
Oxidation (PA)	%	<b>60</b>	63	60	88

## Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.6	0.5	0.5
Nitration (PA)	%	<b>69</b>	73	57	67
Sulfation (PA)	%	<b>55</b>	58	57	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>9</b>	4	4	38
Sodium	ppm	<b>2</b>	2	0	4
Potassium	ppm	<b>2</b>	<1	<1	1



## WEAR METALS

Iron	ppm	<b>17</b>	11	9	33
Copper	ppm	<b>5</b>	35	88	44
Lead	ppm	<b>2</b>	2	<1	2
Tin	ppm	<b>1</b>	1	<1	7
Aluminum	ppm	<b>5</b>	2	0	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>57</b>	61	59	44
Nickel	ppm	<b>&lt;1</b>	1	<1	2
Titanium	ppm	<b>10</b>	<1	0	<1
Silver	ppm	<b>&lt;1</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1313</b>	1150	1133	1613
Magnesium	ppm	<b>973</b>	1024	934	478
Zinc	ppm	<b>1351</b>	1271	1153	1112
Phosphorus	ppm	<b>1152</b>	1102	1032	919
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	4	3	52

**Depot:** VOLVO8885  
**Unique No:** 11057211  
**Signed:** Wes Davis  
**Report Date:** 31 May 2024

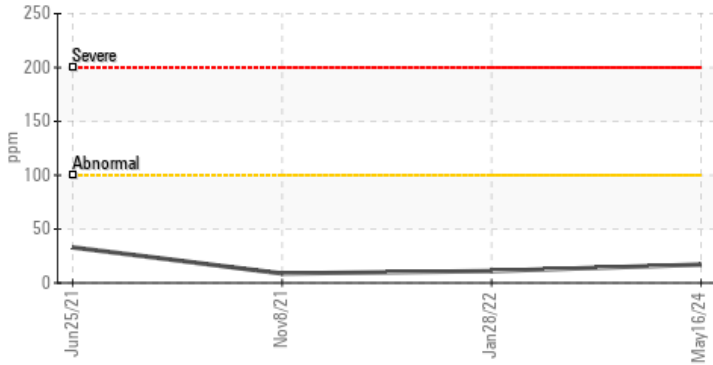


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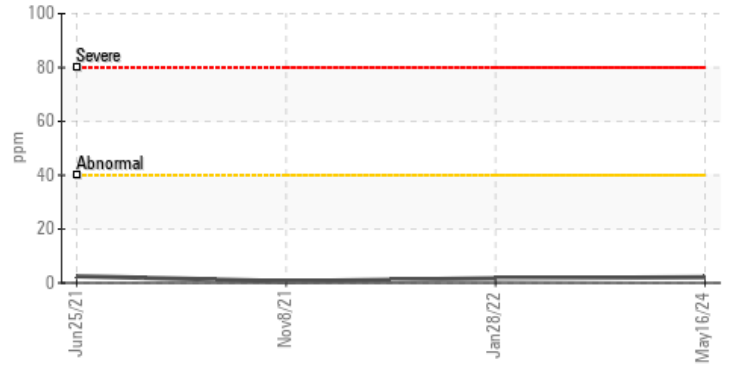


## GRAPHS

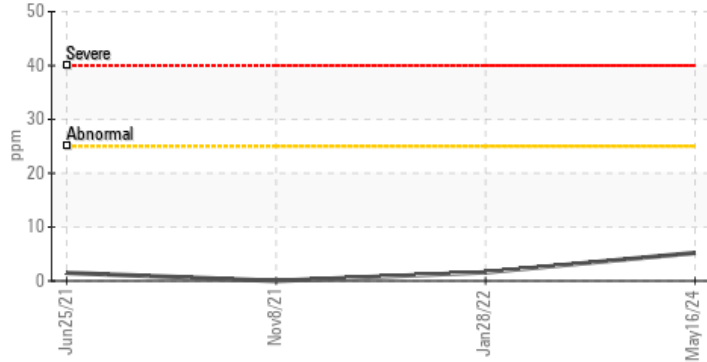
### Iron (ppm)



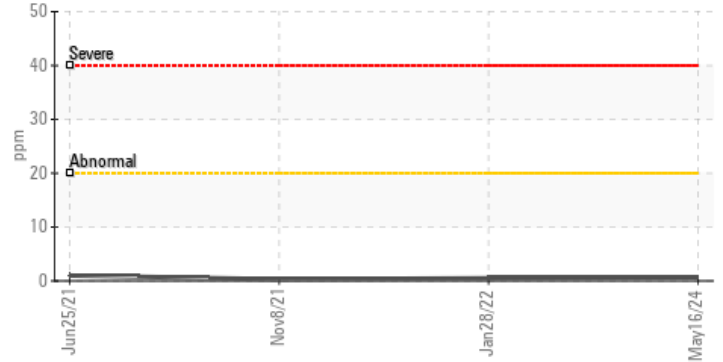
### Lead (ppm)



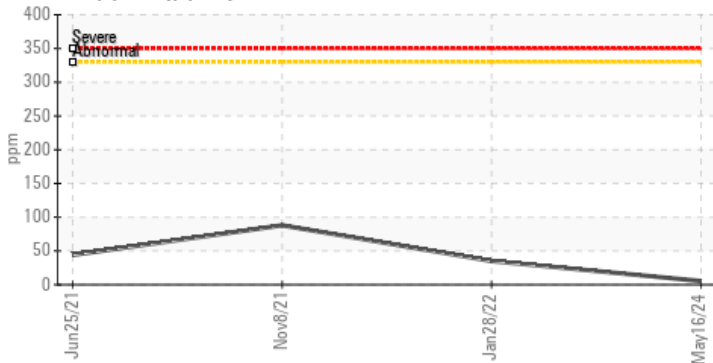
### Aluminum (ppm)



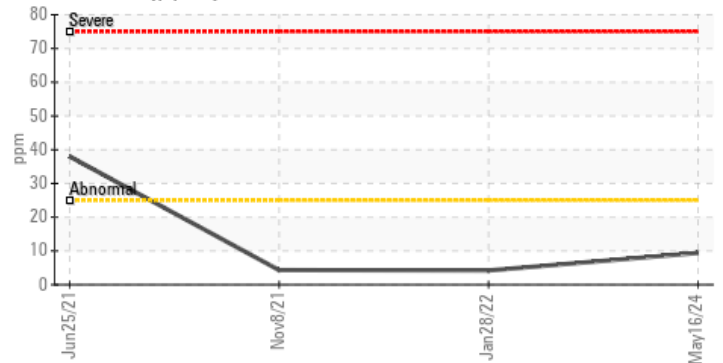
### Chromium (ppm)



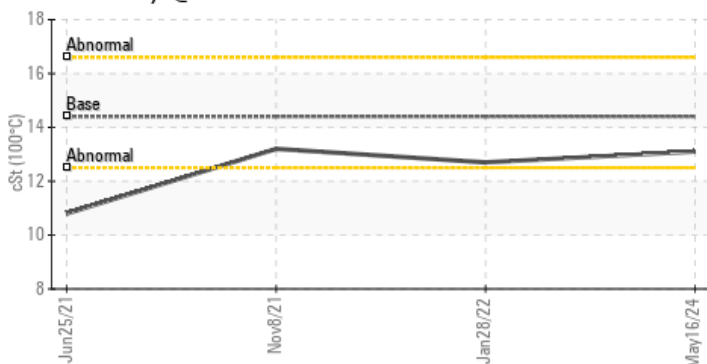
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

