



# CONSTRUCTION EQUIPMENT

717732 DIPRO VOLVO A40G 353052 - DIESEL ENGINE



**Sample No:** VCP453751  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 717732 DIPRO



## SAMPLE INFORMATION

Sample Number	<b>VCP453751</b>	VCP453518	VCP444152	VCP433729
Sample Date	<b>14 Jun 2024</b>	06 May 2024	06 Mar 2024	18 Dec 2023
Machine Hours	<b>9202</b>	8665	8028	7110
Oil Hours	<b>500</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

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

Visc @ 100°C	cSt	<b>12.63</b>	12.4	12.6	12.3
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.0	9.4	9.1
Oxidation (PA)	%	<b>58</b>	59	59	61

## 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>0.1</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>57</b>	56	56	64
Sulfation (PA)	%	<b>52</b>	51	51	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.2
Silicon	ppm	<b>3</b>	6	4	3
Sodium	ppm	<b>1</b>	2	<1	2
Potassium	ppm	<b>&lt;1</b>	4	2	1



## WEAR METALS

Iron	ppm	<b>5</b>	7	5	5
Copper	ppm	<b>1</b>	3	<1	<1
Lead	ppm	<b>&lt;1</b>	3	<1	0
Tin	ppm	<b>0</b>	3	<1	<1
Aluminum	ppm	<b>&lt;1</b>	4	2	<1
Chromium	ppm	<b>0</b>	2	<1	0
Molybdenum	ppm	<b>63</b>	60	65	60
Nickel	ppm	<b>0</b>	3	<1	<1
Titanium	ppm	<b>0</b>	2	<1	0
Silver	ppm	<b>0</b>	3	<1	0
Manganese	ppm	<b>&lt;1</b>	2	<1	<1
Vanadium	ppm	<b>&lt;1</b>	2	<1	<1



## ADDITIVES

Calcium	ppm	<b>1275</b>	1074	1158	1063
Magnesium	ppm	<b>949</b>	947	1060	997
Zinc	ppm	<b>1351</b>	1216	1345	1300
Phosphorus	ppm	<b>1138</b>	1043	1202	1093
Barium	ppm	<b>0</b>	1	0	0
Boron	ppm	<b>12</b>	2	<1	2

**Depot:** VOLVO2990  
**Unique No:** 11088943  
**Signed:** Jonathan Hester  
**Report Date:** 25 Jun 2024

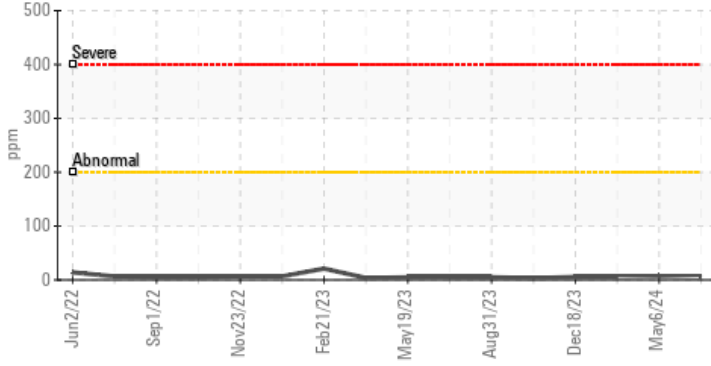


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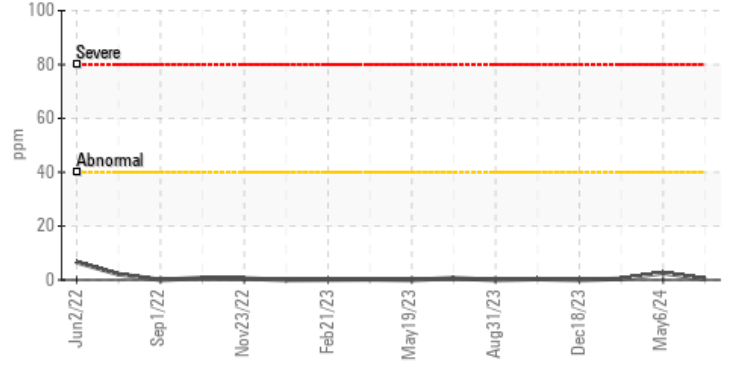


## GRAPHS

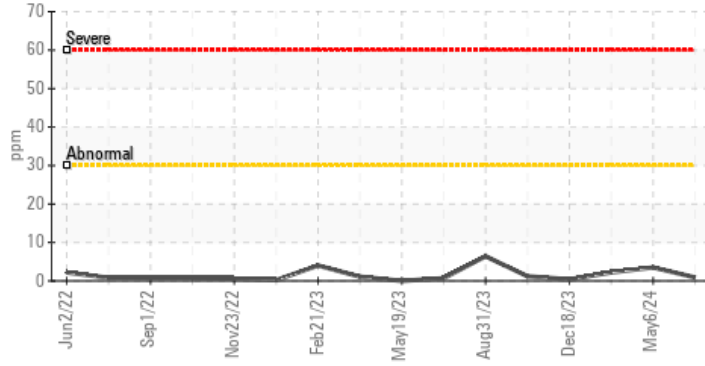
### Iron (ppm)



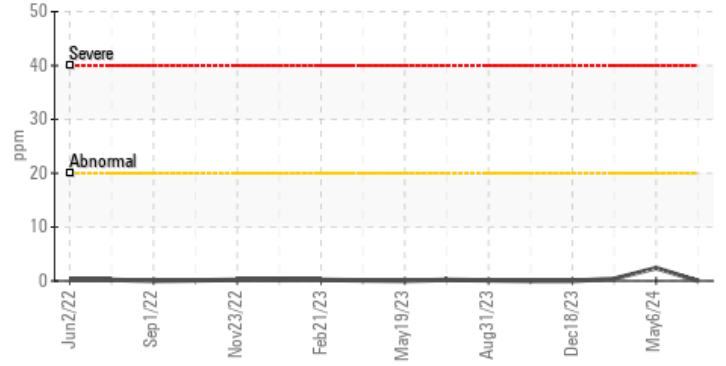
### Lead (ppm)



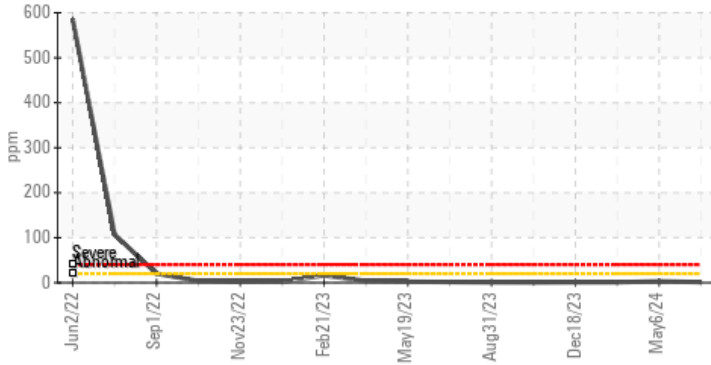
### Aluminum (ppm)



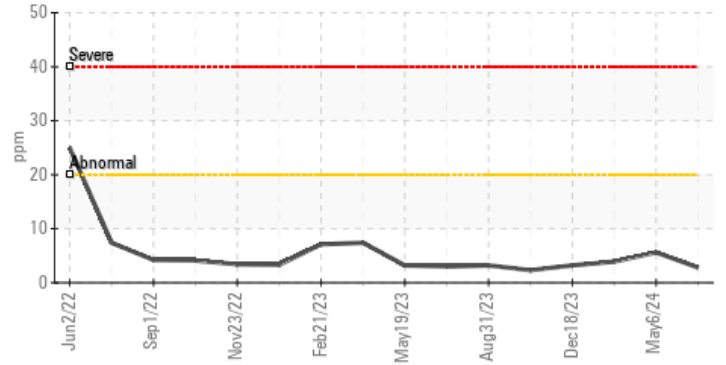
### Chromium (ppm)



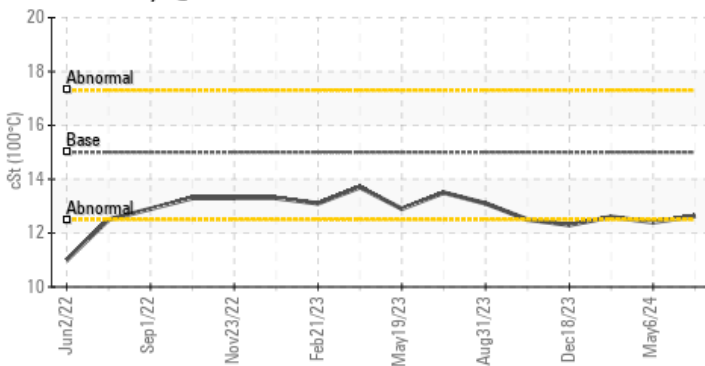
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

