



# CONSTRUCTION EQUIPMENT

W07013270 VOLVO A45G 342200 - DIESEL ENGINE



**Sample No:** VCP387857  
**Oil Type:** MOBIL 15W40  
**Job No:** W07013270



## SAMPLE INFORMATION

Sample Number	<b>VCP387857</b>	VCP422364	VCP246334	VCP331707
Sample Date	<b>17 Aug 2023</b>	13 Apr 2023	09 Dec 2022	15 Dec 2021
Machine Hours	<b>9068</b>	8528	7899	3632
Oil Hours	<b>500</b>	500	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.1	12.8	12.6
Base Number (BN)	mg KOH/g	<b>6.3</b>	7.7	7.5	8
Oxidation (PA)	%	<b>56</b>	77	80	65



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.5	0.6	0.3
Nitration (PA)	%	<b>74</b>	70	90	58
Sulfation (PA)	%	<b>52</b>	56	63	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	2	5
Sodium	ppm	<b>4</b>	3	2	2
Potassium	ppm	<b>4</b>	0	1	0



## WEAR METALS

Iron	ppm	<b>6</b>	9	10	7
Copper	ppm	<b>1</b>	4	1	2
Lead	ppm	<b>1</b>	0	1	3
Tin	ppm	<b>&lt;1</b>	0	<1	1
Aluminum	ppm	<b>4</b>	2	3	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>74</b>	43	57	91
Nickel	ppm	<b>&lt;1</b>	0	0	1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>2111</b>	1700	1181	1570
Magnesium	ppm	<b>113</b>	532	670	478
Zinc	ppm	<b>1176</b>	1100	826	1107
Phosphorus	ppm	<b>964</b>	910	642	952
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>54</b>	39	21	360

## 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.

**Depot:** VOLVO8882  
**Unique No:** 10616594  
**Signed:** Wes Davis  
**Report Date:** 23 Aug 2023

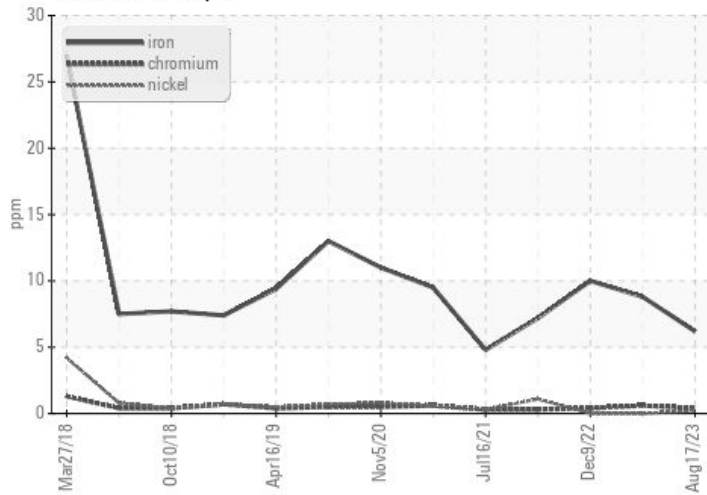


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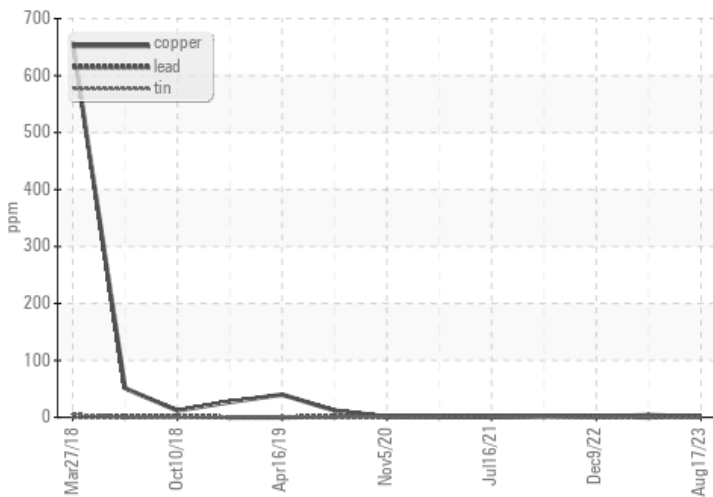


## GRAPHS

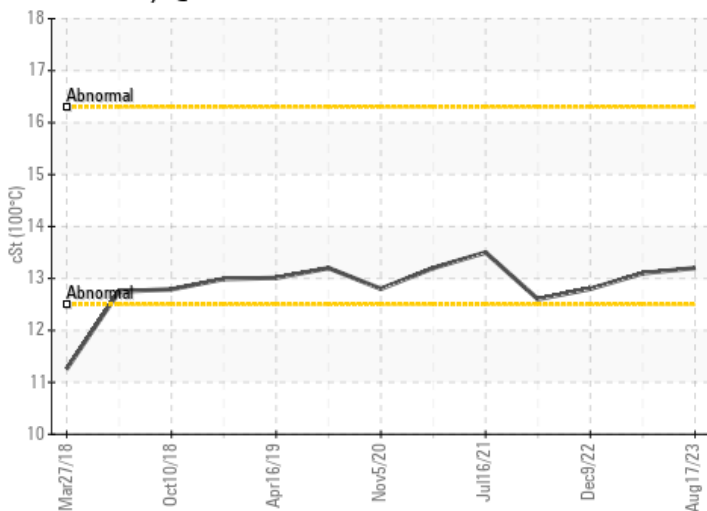
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 100°C



### Base Number

