



# CONSTRUCTION EQUIPMENT

SWA379009-10 VOLVO L220H 2752 - DIESEL ENGINE



**Sample No:** VCP424007  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:** SWA379009-10



## SAMPLE INFORMATION

Sample Number	<b>VCP424007</b>	VCP412859	VCP396047	VCP383806
Sample Date	<b>21 Oct 2023</b>	07 Sep 2023	23 May 2023	23 Jan 2023
Machine Hours	<b>16017</b>	15591	14548	13352
Oil Hours	<b>0</b>	0	300	300
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**WHEELABRATOR**  
 1 CHARLES POINT AVE  
 PEEKSKILL, NY  
 US 10566  
 Contact: Service Manager

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.0	12.9	12.9
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.8	10.3	10.7
Oxidation (PA)	%	<b>64</b>	81	82	79

T:  
F:

## 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

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	52	50	52
Sulfation (PA)	%	<b>54</b>	60	62	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>12</b>	12	8	8
Sodium	ppm	<b>0</b>	3	2	2
Potassium	ppm	<b>0</b>	1	0	<1

## WEAR METALS

Iron	ppm	<b>&lt;1</b>	2	2	3
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	1	<1	<1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>71</b>	40	39	39
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0

## ADDITIVES

Calcium	ppm	<b>1132</b>	1899	1696	1667
Magnesium	ppm	<b>822</b>	552	507	519
Zinc	ppm	<b>1159</b>	1209	1121	1175
Phosphorus	ppm	<b>986</b>	983	909	925
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>29</b>	40	57	58

**Depot:** WHEPEE  
**Unique No:** 10725444  
**Signed:** Wes Davis  
**Report Date:** 03 Nov 2023

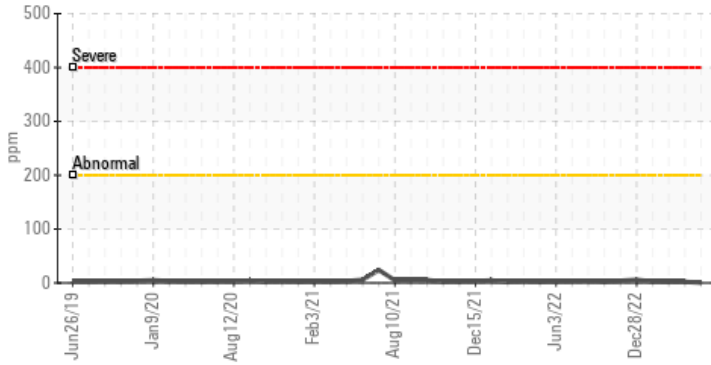


# CONSTRUCTION EQUIPMENT

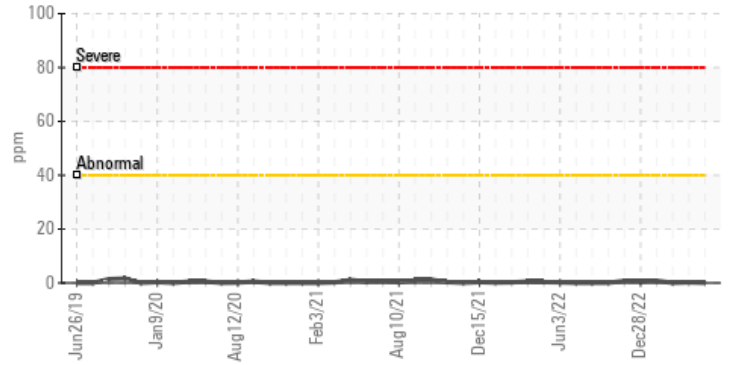


## GRAPHS

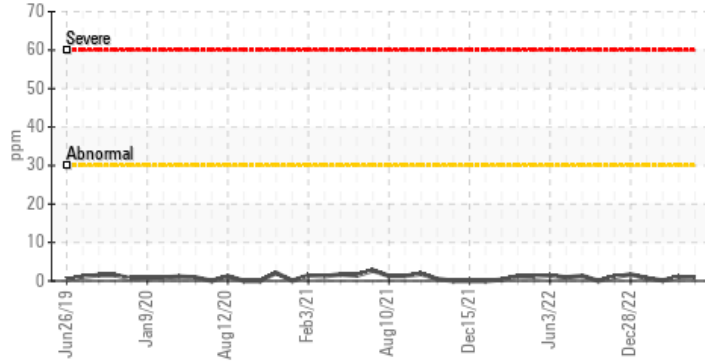
### Iron (ppm)



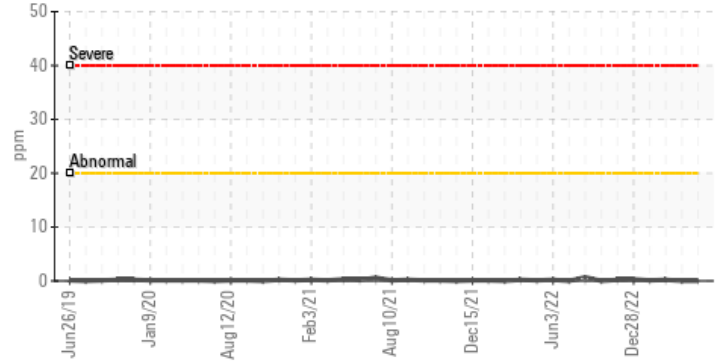
### Lead (ppm)



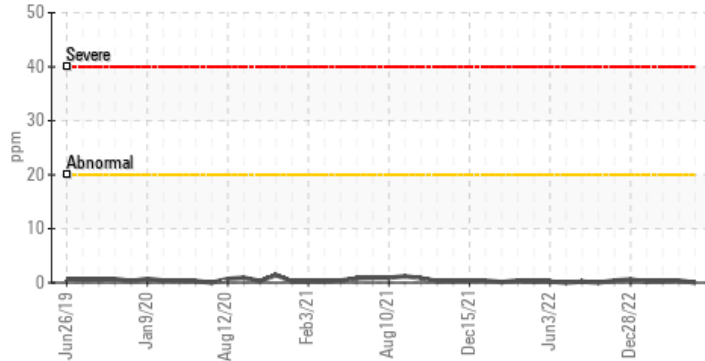
### Aluminum (ppm)



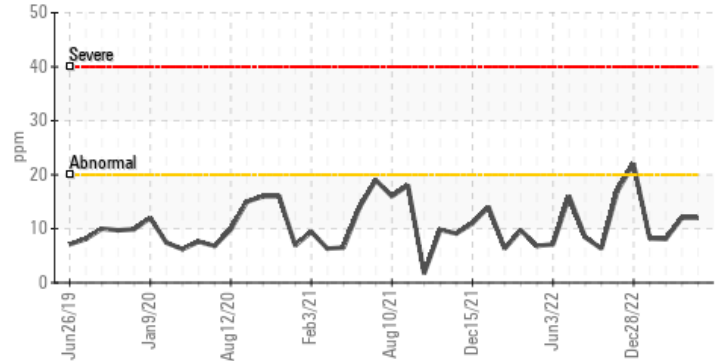
### Chromium (ppm)



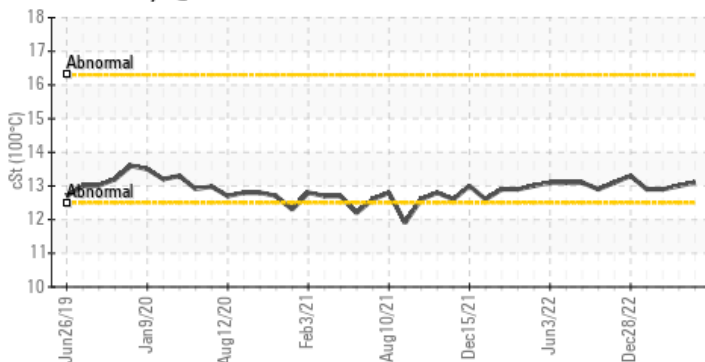
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

