



# CONSTRUCTION EQUIPMENT

## 9532 VOLVO L220H 2855 - DIESEL ENGINE



**Sample No:** VCP413781  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9532



### SAMPLE INFORMATION

Sample Number	<b>VCP413781</b>	VCP423116	VCP405019	VCP355097
Sample Date	<b>01 Sep 2023</b>	26 Jul 2023	05 Apr 2023	20 Jul 2022
Machine Hours	<b>14577</b>	14058	13486	11991
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

**WHEELABRATOR**  
 1801 ANNAPOLIS RD  
 BALTIMORE, MD  
 US 21230  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.2	12.8	12.8
Base Number (BN)	mg KOH/g	<b>6.6</b>	6.7	4.0	5.8
Oxidation (PA)	%	<b>60</b>	65	80	91

T: (215)428-7902  
 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	0.2	0.3
Nitration (PA)	%	<b>54</b>	62	73	91
Sulfation (PA)	%	<b>58</b>	61	65	73
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>16</b>	14	4	66
Sodium	ppm	<b>1</b>	0	2	<1
Potassium	ppm	<b>0</b>	2	9	1



### WEAR METALS

Iron	ppm	<b>2</b>	4	14	14
Copper	ppm	<b>&lt;1</b>	1	<1	2
Lead	ppm	<b>0</b>	<1	1	3
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	5	4
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>86</b>	104	69	121
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1491</b>	1548	1189	1464
Magnesium	ppm	<b>405</b>	431	921	591
Zinc	ppm	<b>1268</b>	1295	1254	785
Phosphorus	ppm	<b>1031</b>	1108	999	610
Barium	ppm	<b>0</b>	2	0	2
Boron	ppm	<b>350</b>	347	18	85

**Depot:** WHEBAL  
**Unique No:** 10634935  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023

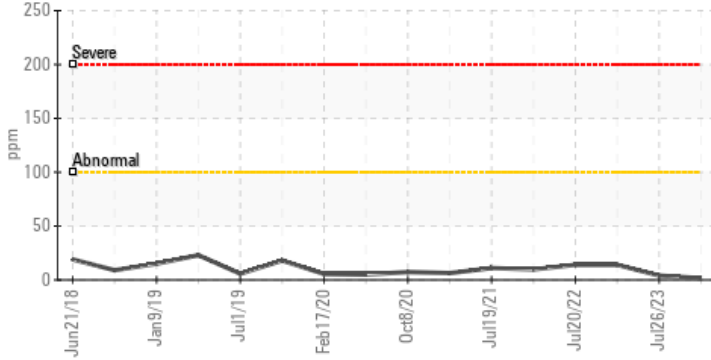


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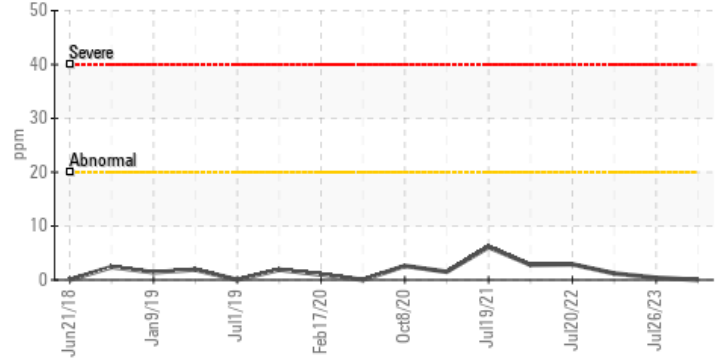


## GRAPHS

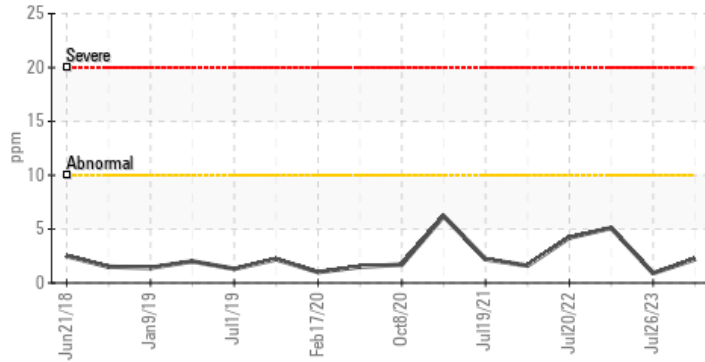
### Iron (ppm)



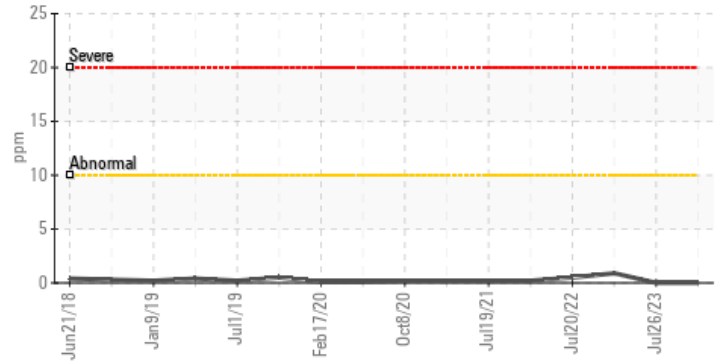
### Lead (ppm)



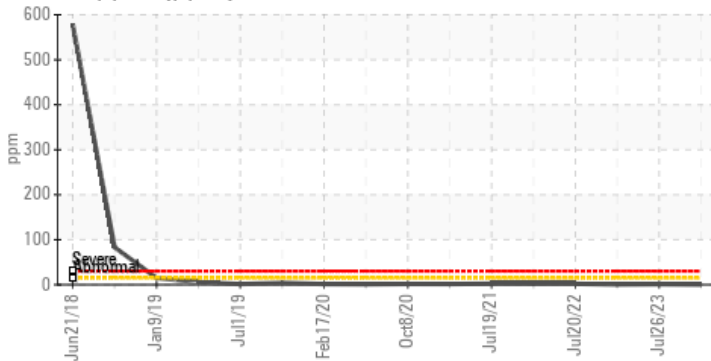
### Aluminum (ppm)



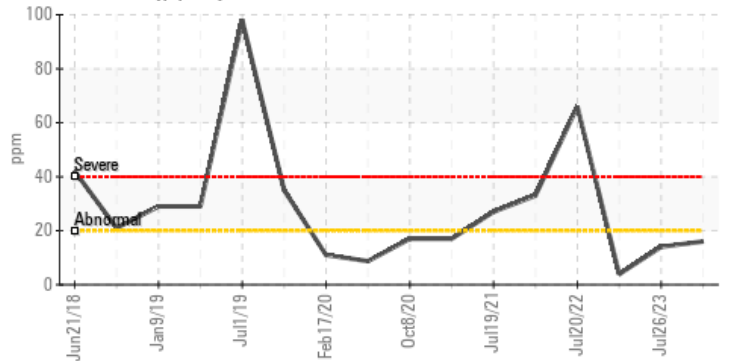
### Chromium (ppm)



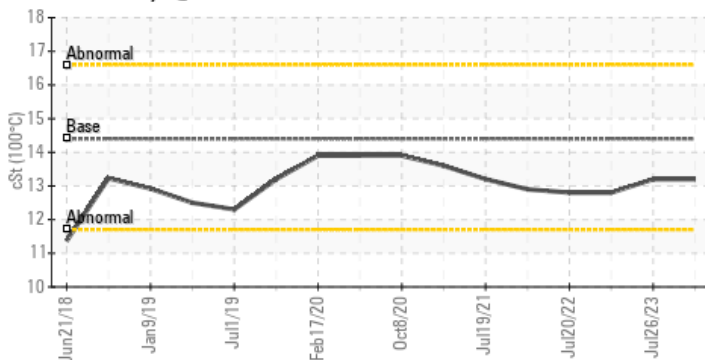
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

