



# CONSTRUCTION EQUIPMENT

## 10051 VOLVO L220H 3064 - DIESEL ENGINE



**Sample No:** VCP409445  
**Oil Type:** CHEVRON 15W40  
**Job No:** 10051



### SAMPLE INFORMATION

Sample Number	<b>VCP409445</b>	VCP422878	VCP422139	VCP408904
Sample Date	<b>15 Dec 2023</b>	03 Nov 2023	26 Jul 2023	20 Jun 2023
Machine Hours	<b>16951</b>	16503	16056	15692
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.2	13.3	13.3
Base Number (BN)	mg KOH/g	<b>7.1</b>	6.7	7.3	7.2
Oxidation (PA)	%	<b>60</b>	63	63	64

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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	57	57	56
Sulfation (PA)	%	<b>57</b>	61	60	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>14</b>	20	16	13
Sodium	ppm	<b>1</b>	<1	0	<1
Potassium	ppm	<b>0</b>	<1	1	<1

### WEAR METALS

Iron	ppm	<b>2</b>	1	3	3
Copper	ppm	<b>0</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>1</b>	2	2	1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>64</b>	86	92	90
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>2</b>	2	1	<1
Silver	ppm	<b>0</b>	1	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1428</b>	1358	1382	1440
Magnesium	ppm	<b>341</b>	407	387	440
Zinc	ppm	<b>1142</b>	1294	1239	1309
Phosphorus	ppm	<b>870</b>	1075	1057	1072
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>285</b>	364	359	372

**Depot:** WHEBAL  
**Unique No:** 10805136  
**Signed:** Wes Davis  
**Report Date:** 27 Dec 2023

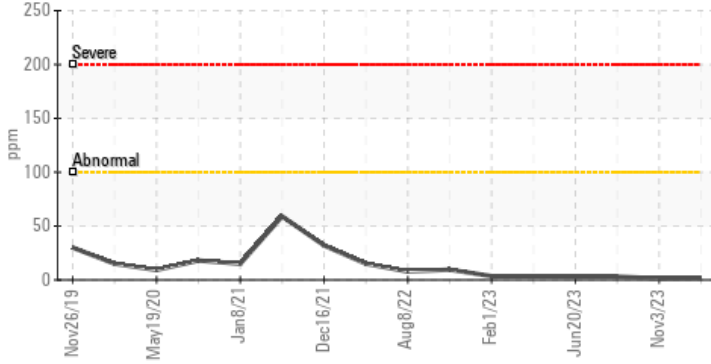


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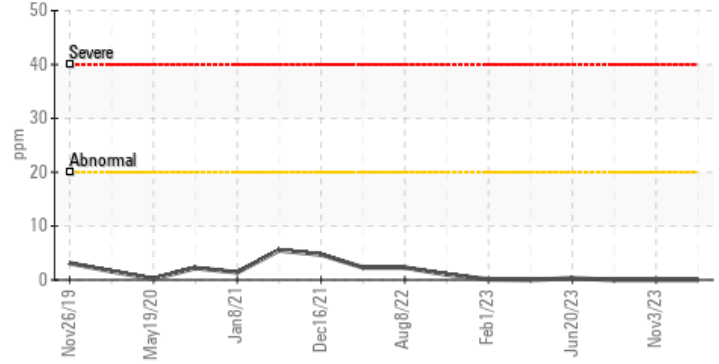


## GRAPHS

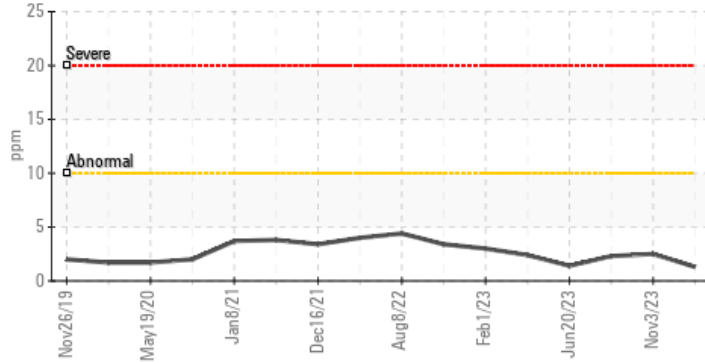
### Iron (ppm)



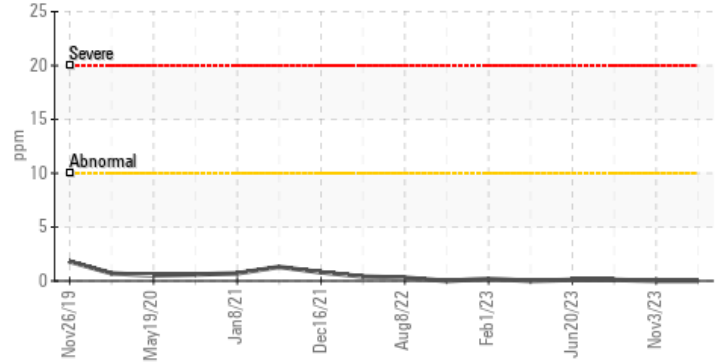
### Lead (ppm)



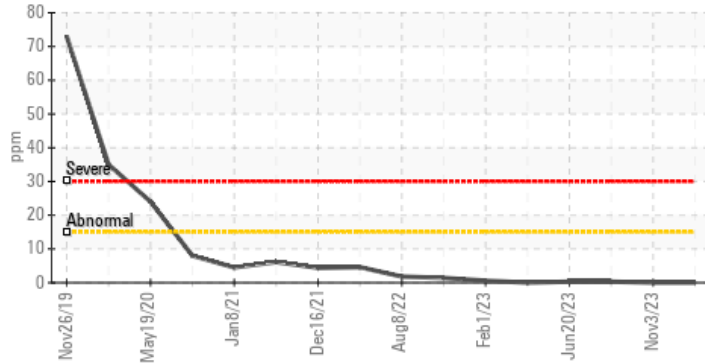
### Aluminum (ppm)



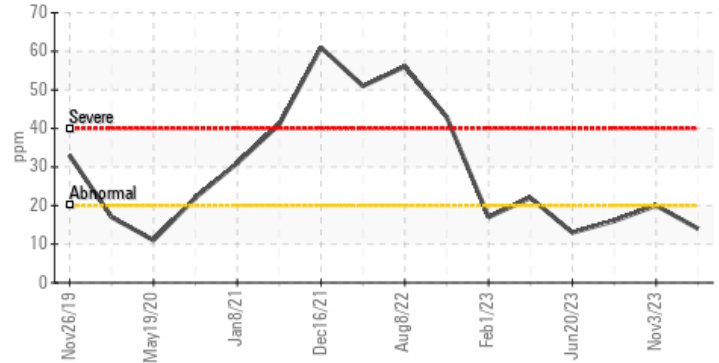
### Chromium (ppm)



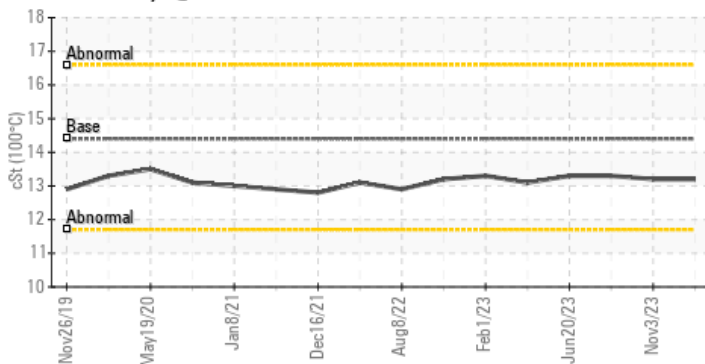
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

