



# CONSTRUCTION EQUIPMENT

## 9871 VOLVO L220H 3064 - DIESEL ENGINE



**Sample No:** VCP422878  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9871



### SAMPLE INFORMATION

Sample Number	<b>VCP422878</b>	VCP422139	VCP408904	VCP387932
Sample Date	<b>03 Nov 2023</b>	26 Jul 2023	20 Jun 2023	19 Apr 2023
Machine Hours	<b>16503</b>	16056	15692	15227
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>	13.3	13.3	13.1
Base Number (BN)	mg KOH/g	<b>6.7</b>	7.3	7.2	5.6
Oxidation (PA)	%	<b>63</b>	63	64	65

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	0.1	0.1
Nitration (PA)	%	<b>57</b>	57	56	63
Sulfation (PA)	%	<b>61</b>	60	61	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>20</b>	16	13	▲ 22
Sodium	ppm	<b>&lt;1</b>	0	<1	1
Potassium	ppm	<b>&lt;1</b>	1	<1	<1

### WEAR METALS

Iron	ppm	<b>1</b>	3	3	4
Copper	ppm	<b>0</b>	<1	<1	0
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>2</b>	2	1	2
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>86</b>	92	90	102
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>2</b>	1	<1	1
Silver	ppm	<b>1</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1358</b>	1382	1440	1593
Magnesium	ppm	<b>407</b>	387	440	533
Zinc	ppm	<b>1294</b>	1239	1309	1268
Phosphorus	ppm	<b>1075</b>	1057	1072	1019
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>364</b>	359	372	367

**Depot:** WHEBAL  
**Unique No:** 10729746  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## GRAPHS

