



# CONSTRUCTION EQUIPMENT

## A13000 VOLVO L180H 5740 - DIESEL ENGINE



**Sample No:** VCP434207  
**Oil Type:** MOBIL 15W40  
**Job No:** A13000



### SAMPLE INFORMATION

Sample Number	<b>VCP434207</b>	VCP412830	VCP440351	VCP432247
Sample Date	<b>09 Jul 2024</b>	13 May 2024	22 Mar 2024	24 Jan 2024
Machine Hours	<b>2800</b>	2345	1960	1505
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**WASTE MANAGEMENT - TELFORD**  
 400 PROGRESS DR  
 TELFORD, PA  
 US 18969-1191  
 Contact: EDWARD ROGENER  
 erogener@wm.com  
 T:  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.9	12.9	12.9
Base Number (BN)	mg KOH/g	<b>7.1</b>	7.0	6.8	7.2
Oxidation (PA)	%	<b>45</b>	43	38	37

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>55</b>	54	55	51
Sulfation (PA)	%	<b>48</b>	47	45	44
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	3	4
Sodium	ppm	<b>1</b>	0	2	0
Potassium	ppm	<b>&lt;1</b>	3	2	0

### 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.

### WEAR METALS

Iron	ppm	<b>3</b>	3	3	1
Copper	ppm	<b>0</b>	1	3	2
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	2	<1	<1
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>18</b>	7	8	8
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>14</b>	23	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>1948</b>	1935	2303	2080
Magnesium	ppm	<b>340</b>	173	80	125
Zinc	ppm	<b>1120</b>	1055	1104	1050
Phosphorus	ppm	<b>968</b>	938	784	931
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>25</b>	42	8	12

**Depot:** WASTEL  
**Unique No:** 11124269  
**Signed:** Wes Davis  
**Report Date:** 15 Jul 2024



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## GRAPHS

