



# CONSTRUCTION EQUIPMENT

## SPM579011 US GYPSUM VOLVO L180H 5498 - DIESEL ENGINE



**Sample No:** VCP422581  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM579011 US GYPSUM



### SAMPLE INFORMATION

Sample Number	<b>VCP422581</b>	VCP422606	VCP403577	VCP365831
Sample Date	<b>06 Jul 2023</b>	24 Apr 2023	13 Mar 2023	02 Nov 2022
Machine Hours	<b>5158</b>	4620	4285	3478
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	14.5	13.1	13.5
Base Number (BN)	mg KOH/g	<b>8.8</b>	8.3	7.8	9.6
Oxidation (PA)	%	<b>58</b>	53	63	69

### 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>0.2</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>60</b>	48	73	71
Sulfation (PA)	%	<b>52</b>	47	55	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	2	3	3
Sodium	ppm	<b>2</b>	0	2	<1
Potassium	ppm	<b>0</b>	<1	<1	2



### WEAR METALS

Iron	ppm	<b>4</b>	2	8	6
Copper	ppm	<b>&lt;1</b>	0	2	8
Lead	ppm	<b>0</b>	0	2	1
Tin	ppm	<b>&lt;1</b>	0	1	1
Aluminum	ppm	<b>&lt;1</b>	<1	2	2
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>63</b>	59	61	61
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>1140</b>	1063	1094	1156
Magnesium	ppm	<b>1050</b>	1040	947	905
Zinc	ppm	<b>1309</b>	1360	1241	1240
Phosphorus	ppm	<b>1087</b>	1070	1032	1035
Barium	ppm	<b>0</b>	0	2	2
Boron	ppm	<b>0</b>	0	0	5

**Depot:** VOLVO8885  
**Unique No:** 10573987  
**Signed:** Wes Davis  
**Report Date:** 27 Jul 2023



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## GRAPHS

