



# CONSTRUCTION EQUIPMENT

## SPM580866 PIONEER FI VOLVO L60H 622878 - DIESEL ENGINE



**Sample No:** VCP420654  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM580866 PIONEER FI



### SAMPLE INFORMATION

Sample Number	<b>VCP420654</b>	VCP418591	VCP400993	VCP396825
Sample Date	<b>04 Aug 2023</b>	28 Apr 2023	24 Feb 2023	20 Dec 2022
Machine Hours	<b>2513</b>	1997	1507	933
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>15.0</b>	15.2	15.0	13.9
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.7	9.7	10.3
Oxidation (PA)	%	<b>54</b>	56	55	58



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>52</b>	52	53	53
Sulfation (PA)	%	<b>50</b>	52	51	52
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	5	5
Sodium	ppm	<b>1</b>	1	1	0
Potassium	ppm	<b>1</b>	<1	0	0



### WEAR METALS

Iron	ppm	<b>10</b>	9	8	7
Copper	ppm	<b>&lt;1</b>	<1	1	1
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>3</b>	<1	<1	4
Chromium	ppm	<b>1</b>	<1	1	<1
Molybdenum	ppm	<b>60</b>	59	51	59
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1047</b>	1060	990	1114
Magnesium	ppm	<b>993</b>	976	899	920
Zinc	ppm	<b>1314</b>	1255	1129	1207
Phosphorus	ppm	<b>1069</b>	1006	914	1011
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	2

### 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.

**Depot:** VOLVO8885  
**Unique No:** 10601882  
**Signed:** Wes Davis  
**Report Date:** 11 Aug 2023



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## GRAPHS

