



# CONSTRUCTION EQUIPMENT

## 9400 VOLVO L70H 622026 - DIESEL ENGINE



**Sample No:** VCP412713  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9400



### SAMPLE INFORMATION

Sample Number	<b>VCP412713</b>	VCP388503	VCP340289	VCP341457
Sample Date	<b>10 Aug 2023</b>	16 Dec 2022	08 Feb 2022	26 Oct 2021
Machine Hours	<b>14778</b>	13439	11870	11324
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>12.6</b>	13.4	13.0	13.7
Base Number (BN)	mg KOH/g	<b>5.5</b>	6.8	9.0	---
Oxidation (PA)	%	<b>73</b>	88	73	68



### CONTAMINATION

Soot %	%	<b>0.8</b>	1	0.4	0.6
Nitration (PA)	%	<b>81</b>	100	72	76
Sulfation (PA)	%	<b>66</b>	75	66	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	6
Sodium	ppm	<b>2</b>	2	1	2
Potassium	ppm	<b>1</b>	<1	<1	2



### WEAR METALS

Iron	ppm	<b>15</b>	16	8	11
Copper	ppm	<b>1</b>	2	<1	<1
Lead	ppm	<b>&lt;1</b>	2	<1	0
Tin	ppm	<b>&lt;1</b>	1	<1	0
Aluminum	ppm	<b>7</b>	8	7	8
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>100</b>	124	120	93
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>2</b>	<1	<1	2
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1658</b>	1601	1588	1486
Magnesium	ppm	<b>515</b>	662	664	566
Zinc	ppm	<b>1112</b>	761	871	737
Phosphorus	ppm	<b>880</b>	586	743	642
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>120</b>	85	296	168

### 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:** VOLV00150  
**Unique No:** 10603844  
**Signed:** Wes Davis  
**Report Date:** 15 Aug 2023



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## GRAPHS

