



# CONSTRUCTION EQUIPMENT

9151 LKQ CURTIS BAY VOLVO L90F 71862 - DIESEL ENGINE



**Sample No:** VCP423098  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9151 LKQ CURTIS BAY



## SAMPLE INFORMATION

Sample Number	<b>VCP423098</b>	VCP392572	VCP347572	VCP340181
Sample Date	<b>27 Jun 2023</b>	12 Jan 2023	28 Apr 2022	13 Dec 2021
Machine Hours	<b>17016</b>	16151	15766	15455
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.7</b>	13.9	14.0	16.1
Base Number (BN)	mg KOH/g	<b>6.9</b>	8.4	9.3	4.9
Oxidation (PA)	%	<b>97</b>	71	89	161



## CONTAMINATION

Soot %	%	<b>0.3</b>	0.2	0.2	0.5
Nitration (PA)	%	<b>93</b>	65	85	125
Sulfation (PA)	%	<b>74</b>	64	73	97
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	8
Sodium	ppm	<b>0</b>	0	2	5
Potassium	ppm	<b>2</b>	3	0	<1



## WEAR METALS

Iron	ppm	<b>9</b>	6	8	23
Copper	ppm	<b>1</b>	2	<1	2
Lead	ppm	<b>5</b>	5	12	58
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	3	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>108</b>	127	126	148
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>2</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0



## ADDITIVES

Calcium	ppm	<b>1526</b>	1593	1590	2069
Magnesium	ppm	<b>492</b>	581	717	820
Zinc	ppm	<b>1191</b>	1154	912	1004
Phosphorus	ppm	<b>964</b>	891	776	832
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>230</b>	355	219	117

## 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:** 10552467  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023



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## GRAPHS

