



# CONSTRUCTION EQUIPMENT

## 9302 VOLVO L150H 4439 - DIESEL ENGINE



**Sample No:** VCP406638  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9302



### SAMPLE INFORMATION

Sample Number	<b>VCP406638</b>	VCP419383	VCP371071	VCP363675
Sample Date	<b>25 Jul 2023</b>	12 May 2023	19 Jan 2023	15 Aug 2022
Machine Hours	<b>10191</b>	9720	9023	8170
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



**CLEAN EARTH - UPPER MARLBORO**  
 6250 DOWER HOUSE RD  
 UPPER MARLBORO, MD  
 US 20772  
 Contact: TIMMY GOVER  
 tgover@harsco.com  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.0	13.1	13.0
Base Number (BN)	mg KOH/g	<b>7.4</b>	6.9	7.1	8.8
Oxidation (PA)	%	<b>63</b>	67	71	74



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>58</b>	65	74	75
Sulfation (PA)	%	<b>60</b>	63	63	67
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>0</b>	2	<1	<1
Potassium	ppm	<b>&lt;1</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>4</b>	5	3	5
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	3	2	4
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>94</b>	99	111	116
Nickel	ppm	<b>&lt;1</b>	<1	2	<1
Titanium	ppm	<b>&lt;1</b>	1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1382</b>	1542	1407	1448
Magnesium	ppm	<b>394</b>	479	542	627
Zinc	ppm	<b>1227</b>	1124	876	810
Phosphorus	ppm	<b>1038</b>	927	724	656
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>370</b>	373	278	211

### 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:** CLEUPP  
**Unique No:** 10586161  
**Signed:** Wes Davis  
**Report Date:** 03 Aug 2023

**VOLVO** **GRAPHS**

