



# CONSTRUCTION EQUIPMENT

## 10007 VOLVO L150H 4439 - DIESEL ENGINE



**Sample No:** VCP398596  
**Oil Type:** CHEVRON 15W40  
**Job No:** 10007



### SAMPLE INFORMATION

Sample Number	<b>VCP398596</b>	VCP406638	VCP419383	VCP371071
Sample Date	<b>04 Dec 2023</b>	25 Jul 2023	12 May 2023	19 Jan 2023
Machine Hours	<b>11045</b>	10191	9720	9023
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>12.9</b>	13.0	13.0	13.1
Base Number (BN)	mg KOH/g	<b>6.2</b>	7.4	6.9	7.1
Oxidation (PA)	%	<b>65</b>	63	67	71

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>62</b>	58	65	74
Sulfation (PA)	%	<b>62</b>	60	63	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	4	5
Sodium	ppm	<b>0</b>	0	2	<1
Potassium	ppm	<b>2</b>	<1	0	0

### 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.

### WEAR METALS

Iron	ppm	<b>5</b>	4	5	3
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	3	2
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>87</b>	94	99	111
Nickel	ppm	<b>1</b>	<1	<1	2
Titanium	ppm	<b>2</b>	<1	1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1381</b>	1382	1542	1407
Magnesium	ppm	<b>385</b>	394	479	542
Zinc	ppm	<b>1244</b>	1227	1124	876
Phosphorus	ppm	<b>979</b>	1038	927	724
Barium	ppm	<b>11</b>	0	0	0
Boron	ppm	<b>344</b>	370	373	278

**Depot:** CLEUPP  
**Unique No:** 10782846  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

