



# CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-395951 VOLVO L-90-H 624436 - DIESEL ENGINE



**Sample No:** VCP449306  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** 8-395951



## SAMPLE INFORMATION

Sample Number	<b>VCP449306</b>	VCP383334	VCP380387	VCP392089
Sample Date	<b>29 Feb 2024</b>	31 Oct 2023	25 Jul 2023	05 May 2023
Machine Hours	<b>8580</b>	8077	7552	7100
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.4	13.5	12.9
Oxidation (PA)	%	<b>83</b>	83	82	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.4	0.3	0.3
Nitration (PA)	%	<b>65</b>	63	58	63
Sulfation (PA)	%	<b>64</b>	64	64	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	10	13	11
Sodium	ppm	<b>2</b>	3	3	3
Potassium	ppm	<b>3</b>	0	1	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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>10</b>	8	7	9
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>4</b>	2	2	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	41	39	40
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	1	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1751</b>	1736	1694	1810
Magnesium	ppm	<b>510</b>	505	501	527
Zinc	ppm	<b>1078</b>	1105	1084	1134
Phosphorus	ppm	<b>954</b>	941	972	1020
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>33</b>	27	31	40

**Depot:** SHEMIS  
**Unique No:** 5746521  
**Signed:** Wes Davis  
**Report Date:** 12 Mar 2024



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## VOLVO GRAPHS

