



# CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-393414 VOVLO L90H 625322 - DIESEL ENGINE



**Sample No:** VCP449284  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-393414



## SAMPLE INFORMATION

Sample Number	<b>VCP449284</b>	VCP353391	VCP394910	VCP381739
Sample Date	<b>05 Feb 2024</b>	31 Oct 2023	26 Jun 2023	21 Mar 2023
Machine Hours	<b>6042</b>	5540	4963	4495
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>13.1</b>	13.2	13.1	12.9
Oxidation (PA)	%	<b>84</b>	85	86	86



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.2	0.1
Nitration (PA)	%	<b>66</b>	66	61	64
Sulfation (PA)	%	<b>64</b>	64	64	72
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	5
Sodium	ppm	<b>2</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	0	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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>11</b>	11	8	8
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>4</b>	4	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	40	40	40
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1745</b>	1709	1723	1832
Magnesium	ppm	<b>510</b>	507	510	516
Zinc	ppm	<b>1070</b>	1105	1095	1095
Phosphorus	ppm	<b>940</b>	944	977	1016
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>32</b>	27	37	43

**Depot:** SHEMIS  
**Unique No:** 5723032  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024



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## GRAPHS

