



# CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-404183 VOLVO L90H 625990 - DIESEL ENGINE



**Sample No:** VCP393041  
**Oil Type:** DIESEL ENGINE OIL SAE 30  
**Job No:** 8-404183



## SAMPLE INFORMATION

Sample Number	<b>VCP393041</b>	VCP449280	VCP353278	VCP392281
Sample Date	<b>24 May 2024</b>	05 Feb 2024	31 Oct 2023	26 Jun 2023
Machine Hours	<b>3540</b>	3033	2627	2012
Oil Hours	<b>0</b>	0	0	2000
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>12.7</b>	12.7	13.4	12.9
Oxidation (PA)	%	<b>82</b>	83	84	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.3	0.2
Nitration (PA)	%	<b>64</b>	62	65	59
Sulfation (PA)	%	<b>64</b>	64	63	63
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	6	5
Sodium	ppm	<b>2</b>	2	3	3
Potassium	ppm	<b>0</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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>65</b>	59	91	68
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	3	3
Chromium	ppm	<b>1</b>	1	2	2
Molybdenum	ppm	<b>40</b>	38	40	39
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	1	1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1748</b>	1697	1716	1697
Magnesium	ppm	<b>512</b>	494	508	502
Zinc	ppm	<b>1047</b>	1035	1099	1077
Phosphorus	ppm	<b>922</b>	907	937	956
Barium	ppm	<b>0</b>	0	<1	<1
Boron	ppm	<b>34</b>	37	25	38

**Depot:** SHEMIS  
**Unique No:** 5787591  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024



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## GRAPHS

