



# CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-379794 VOLVO L90H 623897 - DIESEL ENGINE



**Sample No:** VCP430259  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-379794



## SAMPLE INFORMATION

Sample Number	<b>VCP430259</b>	VCP392274	VCP381759	VCP352428
Sample Date	<b>28 Sep 2023</b>	26 Jun 2023	21 Mar 2023	10 Jan 2023
Machine Hours	<b>10515</b>	9990	9507	9150
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>13.5</b>	13.2	12.8	13.7
Oxidation (PA)	%	<b>80</b>	84	86	89



## CONTAMINATION

Soot %	%	<b>0.8</b>	0.5	0.2	0.6
Nitration (PA)	%	<b>67</b>	64	67	78
Sulfation (PA)	%	<b>64</b>	64	72	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	5	6
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	0	0	<1



## WEAR METALS

Iron	ppm	<b>13</b>	9	10	15
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>3</b>	3	3	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	40	41	46
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1758</b>	1721	1843	1870
Magnesium	ppm	<b>520</b>	513	521	538
Zinc	ppm	<b>1135</b>	1105	1094	1152
Phosphorus	ppm	<b>951</b>	1001	1029	1051
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>24</b>	33	41	26

### 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.

**Depot:** SHEMIS  
**Unique No:** 5655725  
**Signed:** Wes Davis  
**Report Date:** 04 Oct 2023

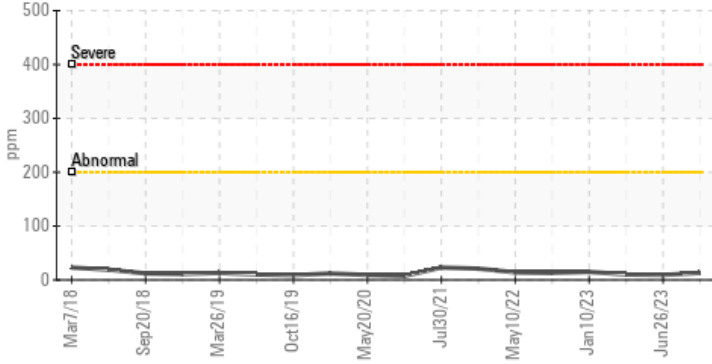


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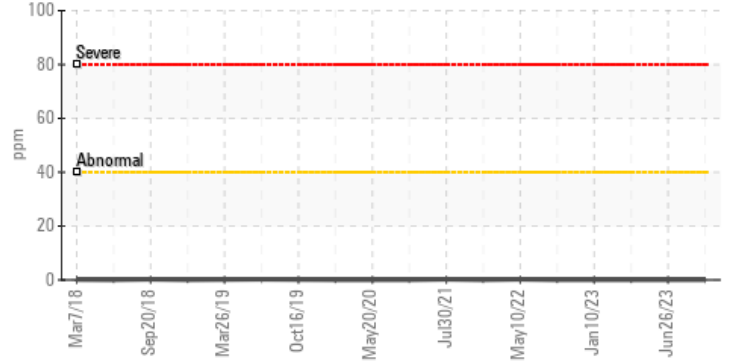


## GRAPHS

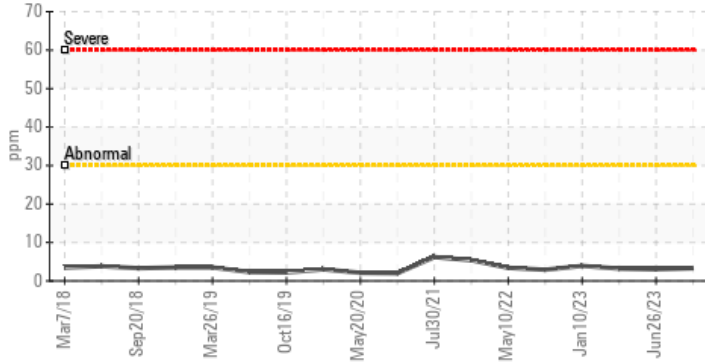
### Iron (ppm)



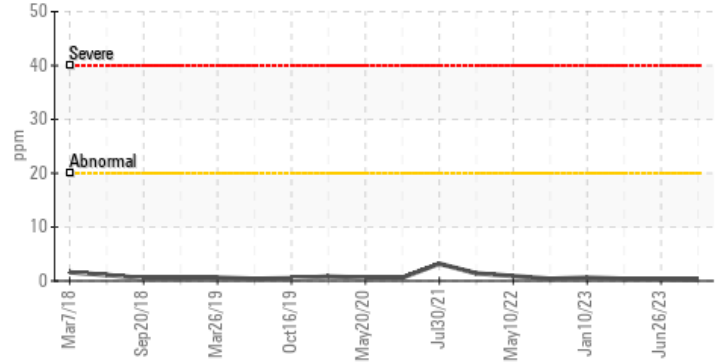
### Lead (ppm)



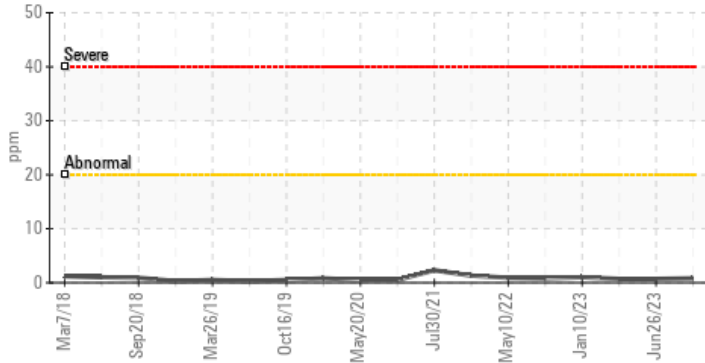
### Aluminum (ppm)



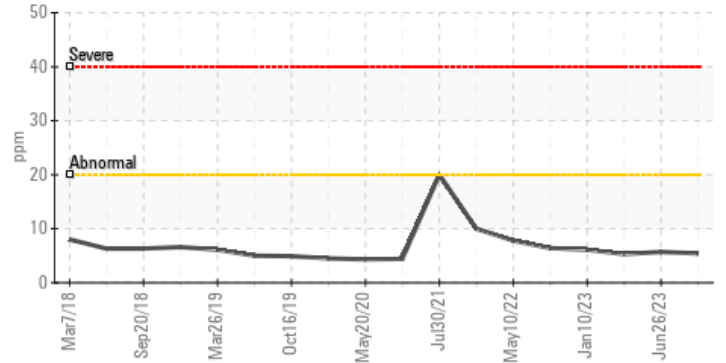
### Chromium (ppm)



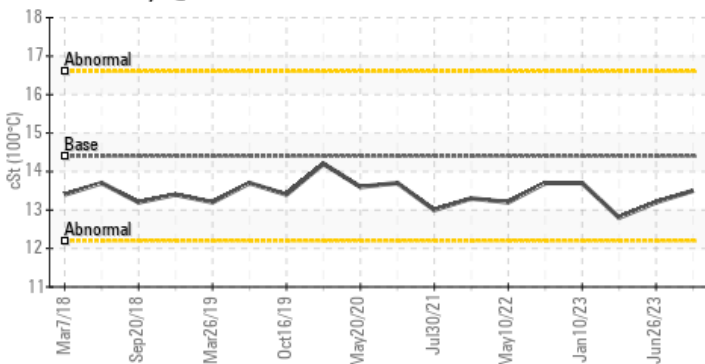
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

