



# CONSTRUCTION EQUIPMENT

SPM595387 VOLVO L150H 6952 - REAR AXLE



**Sample No:** VCP415464  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:** SPM595387



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP415464</b>   | VCP420696   | VCP423213   | VCP290597   |
| Sample Date   | <b>25 Aug 2023</b> | 19 Jul 2023 | 01 Jun 2023 | 16 Nov 2022 |
| Machine Hours | <b>11277</b>       | 10311       | 10051       | 8396        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | Changed     | Not Chngd   |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | SEVERE      | NORMAL      |

## SIMS METAL MANAGEMENT

2500 S. PAULINA  
 CHICAGO, IL  
 US 60608  
 Contact: RYAN WISE  
 ryan.wise@simsmm.com  
 T:  
 F:



## OIL CONDITION

|             |     |             |      |     |      |
|-------------|-----|-------------|------|-----|------|
| Visc @ 40°C | cSt | <b>44.5</b> | 44.5 | 129 | 40.0 |
|-------------|-----|-------------|------|-----|------|



## CONTAMINATION

|           |     |              |    |    |    |
|-----------|-----|--------------|----|----|----|
| Silicon   | ppm | <b>15</b>    | 13 | 16 | 17 |
| Sodium    | ppm | <b>5</b>     | 5  | 2  | 12 |
| Potassium | ppm | <b>&lt;1</b> | <1 | 5  | 0  |



## WEAR METALS

|            |     |              |    |      |     |
|------------|-----|--------------|----|------|-----|
| Iron       | ppm | <b>90</b>    | 74 | 1236 | 308 |
| Copper     | ppm | <b>0</b>     | <1 | 751  | <1  |
| Lead       | ppm | <b>0</b>     | <1 | 14   | <1  |
| Tin        | ppm | <b>0</b>     | <1 | 40   | <1  |
| Aluminum   | ppm | <b>&lt;1</b> | <1 | 3    | 2   |
| Chromium   | ppm | <b>2</b>     | 2  | 14   | 8   |
| Molybdenum | ppm | <b>&lt;1</b> | 1  | 5    | 13  |
| Nickel     | ppm | <b>&lt;1</b> | <1 | 11   | 1   |
| Titanium   | ppm | <b>0</b>     | <1 | <1   | <1  |
| Silver     | ppm | <b>0</b>     | 2  | 0    | 0   |
| Manganese  | ppm | <b>3</b>     | 3  | 12   | 12  |
| Vanadium   | ppm | <b>0</b>     | <1 | <1   | 0   |



## ADDITIVES

|            |     |             |      |     |      |
|------------|-----|-------------|------|-----|------|
| Calcium    | ppm | <b>4041</b> | 3497 | 833 | 3941 |
| Magnesium  | ppm | <b>22</b>   | 22   | 405 | 17   |
| Zinc       | ppm | <b>1644</b> | 1415 | 803 | 1613 |
| Phosphorus | ppm | <b>1288</b> | 1114 | 969 | 1262 |
| Barium     | ppm | <b>0</b>    | 0    | 0   | 0    |
| Boron      | ppm | <b>159</b>  | 121  | 72  | 126  |

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** SIMCHIL  
**Unique No:** 10634523  
**Signed:** Don Baldrige  
**Report Date:** 08 Sep 2023

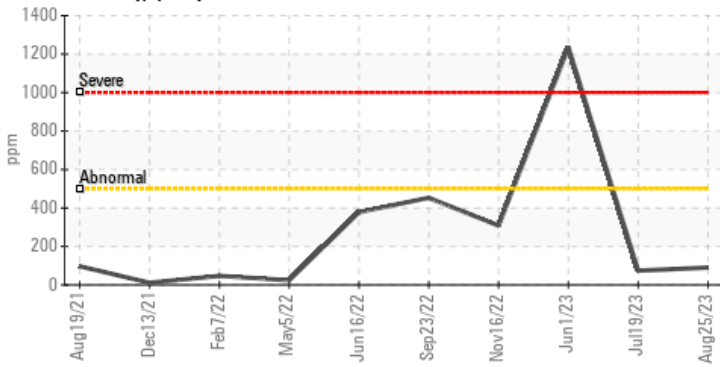


# CONSTRUCTION EQUIPMENT

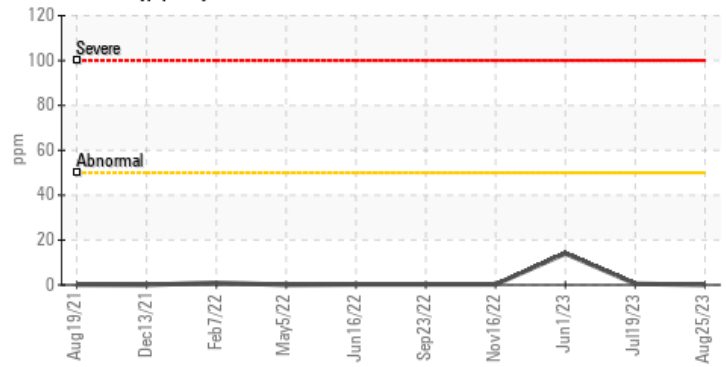


## GRAPHS

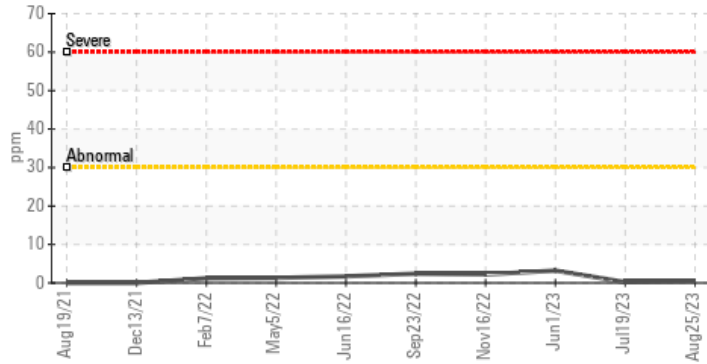
### Iron (ppm)



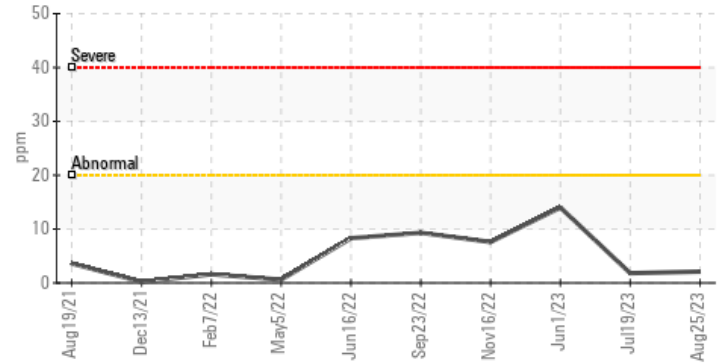
### Lead (ppm)



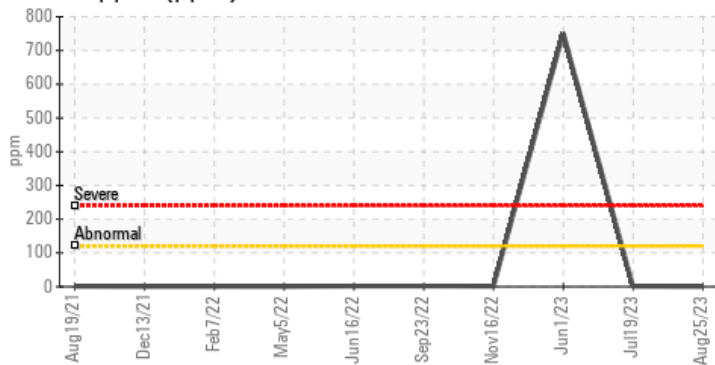
### Aluminum (ppm)



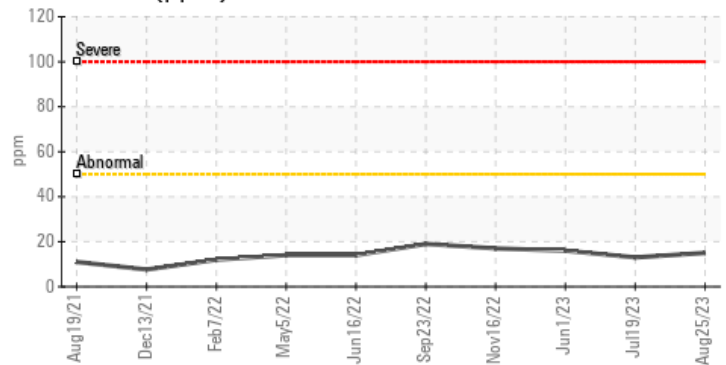
### Chromium (ppm)



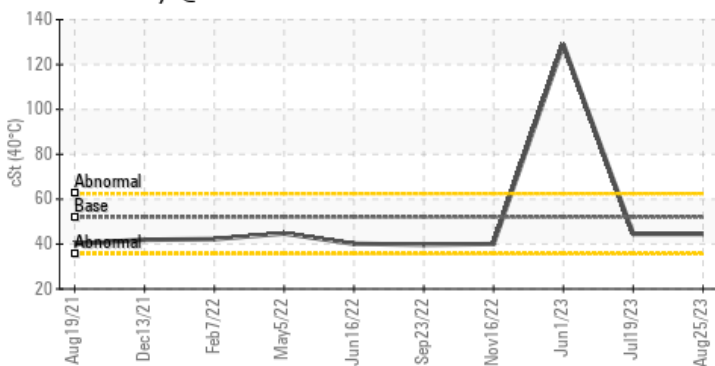
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

