



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 624818 - REAR AXLE



**Sample No:** VCP452254  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP452254</b>	VCP411636	VCP313202	VCP293894
Sample Date	<b>30 Jan 2024</b>	05 Jun 2023	14 Oct 2021	08 Dec 2020
Machine Hours	<b>4037</b>	3023	2055	983
Oil Hours	<b>0</b>	0	1500	983
Oil Changed	<b>N/A</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>40.1</b>	40.5	40.6	39.8
-------------	-----	-------------	------	------	------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>13</b>	14	15	11
Sodium	ppm	<b>&lt;1</b>	5	0	<1
Potassium	ppm	<b>2</b>	0	2	2

### 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>99</b>	105	92	49
Copper	ppm	<b>1</b>	61	47	39
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	6	4	3
Aluminum	ppm	<b>2</b>	1	1	<1
Chromium	ppm	<b>4</b>	4	4	2
Molybdenum	ppm	<b>11</b>	6	6	4
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	1	<1
Manganese	ppm	<b>12</b>	11	11	8
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>4020</b>	3907	4363	4240
Magnesium	ppm	<b>13</b>	11	13	10
Zinc	ppm	<b>1825</b>	1651	1647	1568
Phosphorus	ppm	<b>1214</b>	1330	1409	1350
Barium	ppm	<b>5</b>	0	0	0
Boron	ppm	<b>138</b>	132	143	131

**Depot:** RIPTAM  
**Unique No:** 10863733  
**Signed:** Jonathan Hester  
**Report Date:** 08 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

