



# CONSTRUCTION EQUIPMENT

## SWA441978 VOLVO SD115B 236555 - DRUM GEARBOX



**Sample No:** VCP440628  
**Oil Type:** MOBIL SHC 630  
**Job No:** SWA441978



### SAMPLE INFORMATION

Sample Number	<b>VCP440628</b>	VCP387172	VCP305561	---
Sample Date	<b>20 Dec 2023</b>	14 Sep 2022	18 Jan 2021	---
Machine Hours	<b>5898</b>	5481	3328	---
Oil Hours	<b>0</b>	5481	1000	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
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T:  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 43.2</b>	■ 222	■ 220	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>6</b>	23	26	---
Sodium	ppm	■ 2	■ 0	■ 0	---
Potassium	ppm	■ 0	■ <1	■ 0	---



### WEAR METALS

Iron	ppm	■ 167	■ 4	■ 3	---
Copper	ppm	■ 34	0	<1	---
Lead	ppm	<b>18</b>	0	5	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	■ 1	■ 0	■ 0	---
Molybdenum	ppm	■ 2	■ 0	■ 0	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	■ 2	■ 0	■ 0	---
Vanadium	ppm	<1	0	0	---



### ADDITIVES

Calcium	ppm	<b>▲ 107</b>	■ 12	■ <1	---
Magnesium	ppm	■ 7	■ <1	■ 0	---
Zinc	ppm	<b>▲ 361</b>	■ 4	■ 0	---
Phosphorus	ppm	■ 327	■ 433	■ 407	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ <1	■ 0	■ <1	---

### 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** RIPTAM  
**Unique No:** 10803343  
**Signed:** Don Baldrige  
**Report Date:** 24 Dec 2023



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## GRAPHS

