



# CONSTRUCTION EQUIPMENT

13299 SHOOSMITH VOLVO SD115 245137 - DIESEL ENGINE



**Sample No:** VCP407656  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 13299 SHOOSMITH



## SAMPLE INFORMATION

Sample Number	VCP407656	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	2536	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

**McClung-Logan Virginia LLC- RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.COM  
 T:  
 F: (804)266-1611



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.1	---	---	---
Oxidation (PA)	%	61	---	---	---

## Diagnosis

Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. High wear metal levels reflect the reported failure. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



## CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 4	---	---	---



## WEAR METALS

Iron	ppm	█ 41	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 32	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 81	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1475	---	---	---
Magnesium	ppm	█ 442	---	---	---
Zinc	ppm	█ 1320	---	---	---
Phosphorus	ppm	█ 1062	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 397	---	---	---

**Depot:** VOLVO8882  
**Unique No:** 10629127  
**Signed:** Doug Bogart  
**Report Date:** 31 Aug 2023

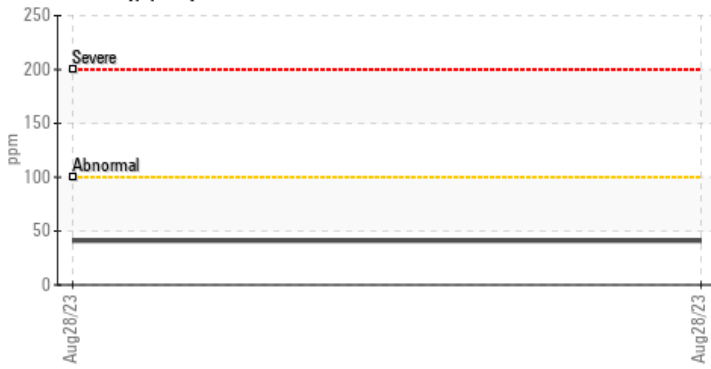


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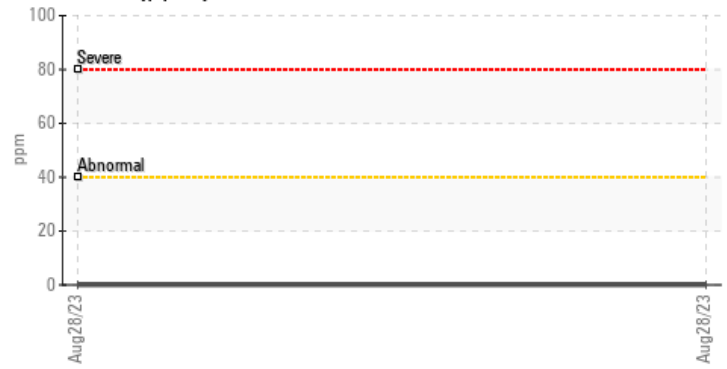


## GRAPHS

### Iron (ppm)



### Lead (ppm)



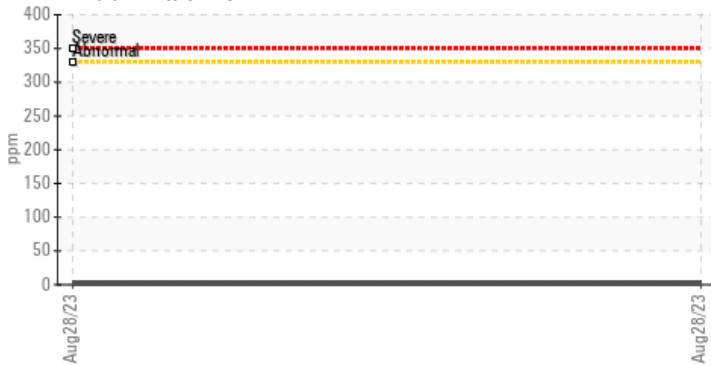
### Aluminum (ppm)



### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

