



# CONSTRUCTION EQUIPMENT

## X13915 VOLVO L60F 71360 - DIESEL ENGINE



**Sample No:** VCP399190  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X13915



### SAMPLE INFORMATION

Sample Number	<b>VCP399190</b>	VCE138414	VC250851	---
Sample Date	<b>26 Feb 2024</b>	06 Feb 2023	31 Jan 2022	---
Machine Hours	<b>10895</b>	10378	9726	---
Oil Hours	<b>0</b>	0	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**SCOTT EQUIPMENT COMPANY LLC - Broussard**  
 100 IDA ROAD  
 BROUSSARD, LA  
 US 70518  
 Contact: ADAM FEIRMAN  
 afeirman@scottcompanies.com  
 T: (337)837-2907  
 F: (337)837-5116



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.9	13.1	---
Base Number (BN)	mg KOH/g	<b>9.0</b>	4.6	11.5	---
Oxidation (PA)	%	<b>67</b>	115	82	---

### 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 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

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.1	0.4	---
Nitration (PA)	%	<b>53</b>	129	61	---
Sulfation (PA)	%	<b>61</b>	72	66	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	6	5	---
Sodium	ppm	<b>2</b>	3	2	---
Potassium	ppm	<b>&lt;1</b>	1	<1	---



### WEAR METALS

Iron	ppm	<b>5</b>	6	6	---
Copper	ppm	<b>&lt;1</b>	<1	<1	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	0	<1	---
Aluminum	ppm	<b>4</b>	3	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>114</b>	112	54	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1508</b>	1486	1722	---
Magnesium	ppm	<b>638</b>	619	538	---
Zinc	ppm	<b>954</b>	876	1098	---
Phosphorus	ppm	<b>775</b>	698	962	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>262</b>	336	98	---

**Depot:** VOLVO6241  
**Unique No:** 10902243  
**Signed:** Don Baldrige  
**Report Date:** 02 Mar 2024



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## GRAPHS

