



# CONSTRUCTION EQUIPMENT

## VOLVO L150H 6930 - DIESEL ENGINE



**Sample No:** VCP441892  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441892</b>	VCP420253	VCP374162	VCP297919
Sample Date	<b>17 Jan 2024</b>	05 May 2023	31 May 2022	13 Sep 2021
Machine Hours	<b>2342</b>	1840	1280	733
Oil Hours	<b>0</b>	600	500	360
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
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 @ 100°C	cSt	<b>12.3</b>	13.0	13.2	12.7
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.6	10.2	---
Oxidation (PA)	%	<b>82</b>	80	87	84

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>67</b>	80	73	63
Sulfation (PA)	%	<b>61</b>	60	64	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.7</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	8
Sodium	ppm	<b>0</b>	4	3	2
Potassium	ppm	<b>3</b>	4	3	<1



### WEAR METALS

Iron	ppm	<b>6</b>	7	9	9
Copper	ppm	<b>1</b>	1	3	6
Lead	ppm	<b>0</b>	2	1	<1
Tin	ppm	<b>0</b>	2	2	2
Aluminum	ppm	<b>2</b>	2	2	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	35	40	42
Nickel	ppm	<b>0</b>	2	2	0
Titanium	ppm	<b>1</b>	13	0	<1
Silver	ppm	<b>0</b>	0	2	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1575</b>	1733	1739	1680
Magnesium	ppm	<b>498</b>	532	471	511
Zinc	ppm	<b>1105</b>	1222	1120	1096
Phosphorus	ppm	<b>847</b>	989	908	916
Barium	ppm	<b>5</b>	0	0	0
Boron	ppm	<b>34</b>	41	36	47

**Depot:** RIPTAM  
**Unique No:** 10863263  
**Signed:** Wes Davis  
**Report Date:** 08 Feb 2024



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## GRAPHS

