



# CONSTRUCTION EQUIPMENT

X59804 VOLVO L110H 632135 - DIESEL ENGINE



**Sample No:** VCP441815  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X59804



## SAMPLE INFORMATION

Sample Number	<b>VCP441815</b>	VCP437004	VCP413493	VCP384456
Sample Date	<b>27 Jun 2024</b>	24 Apr 2024	18 Jul 2023	01 Feb 2023
Machine Hours	<b>4481</b>	4050	3446	2899
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.2	13.6	14.4
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.5	8.9	7.1
Oxidation (PA)	%	<b>82</b>	84	84	85



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.5	0.6
Nitration (PA)	%	<b>58</b>	64	68	77
Sulfation (PA)	%	<b>61</b>	61	63	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	7	8
Sodium	ppm	<b>2</b>	2	4	3
Potassium	ppm	<b>2</b>	0	0	3



## WEAR METALS

Iron	ppm	<b>11</b>	21	29	40
Copper	ppm	<b>4</b>	<1	4	10
Lead	ppm	<b>&lt;1</b>	0	<1	2
Tin	ppm	<b>&lt;1</b>	0	<1	2
Aluminum	ppm	<b>▲ 10</b>	▲ 33	▲ 31	▲ 55
Chromium	ppm	<b>1</b>	1	2	3
Molybdenum	ppm	<b>42</b>	40	39	23
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1663</b>	1826	1972	2002
Magnesium	ppm	<b>492</b>	518	496	302
Zinc	ppm	<b>1084</b>	1176	1230	1167
Phosphorus	ppm	<b>860</b>	973	1004	930
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>30</b>	31	42	57

## Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other 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 suitable for further service.

**Depot:** SCOSAI  
**Unique No:** 11103953  
**Signed:** Don Baldrige  
**Report Date:** 03 Jul 2024



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## GRAPHS

