



# CONSTRUCTION EQUIPMENT

## X58804 VOLVO L90G 3614 - DIESEL ENGINE



**Sample No:** VCP405777  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X58804



### SAMPLE INFORMATION

Sample Number	<b>VCP405777</b>	VCP317616	VCP311663	VCP294322
Sample Date	<b>26 Oct 2023</b>	29 Jul 2021	28 Apr 2021	05 Jan 2021
Machine Hours	<b>18578</b>	0	17235	16761
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.1	13.1	13.5
Base Number (BN)	mg KOH/g	<b>11.0</b>	---	---	---
Oxidation (PA)	%	<b>79</b>	86	82	86

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is 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 acceptable for the time in service.

### CONTAMINATION

Soot %	%	<b>0.4</b>	0.3	0.3	0.4
Nitration (PA)	%	<b>60</b>	58	64	66
Sulfation (PA)	%	<b>59</b>	64	62	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>12</b>	6	7	8
Sodium	ppm	<b>2</b>	2	<1	3
Potassium	ppm	<b>2</b>	0	0	0

### WEAR METALS

Iron	ppm	<b>110</b>	19	23	34
Copper	ppm	<b>4</b>	1	1	2
Lead	ppm	<b>0</b>	<1	<1	4
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>▲ 93</b>	11	17	20
Chromium	ppm	<b>3</b>	1	1	1
Molybdenum	ppm	<b>38</b>	42	38	39
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>1659</b>	1811	1604	1804
Magnesium	ppm	<b>481</b>	492	487	510
Zinc	ppm	<b>1070</b>	909	1064	1072
Phosphorus	ppm	<b>812</b>	836	897	924
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>48</b>	58	36	32

**Depot:** SCOSAI  
**Unique No:** 10735820  
**Signed:** Angela Borella  
**Report Date:** 10 Nov 2023



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## GRAPHS

