



# CONSTRUCTION EQUIPMENT

X58805 VOLVO L90H 624610 - DIESEL ENGINE



**Sample No:** VCP406837  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X58805



## SAMPLE INFORMATION

Sample Number	<b>VCP406837</b>	VCP413464	VCP384787	VCP379057
Sample Date	<b>26 Oct 2023</b>	03 Aug 2023	07 Nov 2022	24 Jun 2022
Machine Hours	<b>7516</b>	7068	5858	5210
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	14.1	14.1	14.1
Base Number (BN)	mg KOH/g	<b>10.5</b>	9.1	11.8	11.2
Oxidation (PA)	%	<b>81</b>	68	91	88

## CONTAMINATION

Soot %	%	<b>0.5</b>	0.5	0.9	0.7
Nitration (PA)	%	<b>58</b>	63	80	78
Sulfation (PA)	%	<b>61</b>	56	70	64
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	6	6
Sodium	ppm	<b>0</b>	3	3	2
Potassium	ppm	<b>2</b>	1	<1	0

## WEAR METALS

Iron	ppm	<b>6</b>	14	13	14
Copper	ppm	<b>&lt;1</b>	2	<1	1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	6	5	6
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>42</b>	43	42	42
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0

## ADDITIVES

Calcium	ppm	<b>1622</b>	1906	1895	1764
Magnesium	ppm	<b>504</b>	551	530	516
Zinc	ppm	<b>1143</b>	1231	1139	1117
Phosphorus	ppm	<b>864</b>	992	957	899
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>35</b>	20	25	33

## 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 suitable for further service.

**Depot:** SCOSAI  
**Unique No:** 10735822  
**Signed:** Wes Davis  
**Report Date:** 09 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

