



# CONSTRUCTION EQUIPMENT

12835 SIGNAL MTN - DIESEL ENGINE



**Sample No:** VCP384975  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 12835 SIGNAL MTN



## SAMPLE INFORMATION

Sample Number	<b>VCP384975</b>	ASC0006019	VCP370714	VCP332404
Sample Date	<b>17 May 2024</b>	18 Jan 2024	15 Feb 2023	10 Aug 2022
Machine Hours	<b>5505</b>	4667	2584	1471
Oil Hours	<b>0</b>	0	0	1471
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	13.0	13.0	13.3
Base Number (BN)	mg KOH/g	<b>10.4</b>	8.9	9.2	11.8
Oxidation (PA)	%	<b>78</b>	86	84	87

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>50</b>	72	72	66
Sulfation (PA)	%	<b>60</b>	62	63	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.6</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	5	4
Sodium	ppm	<b>5</b>	2	2	3
Potassium	ppm	<b>3</b>	1	4	2



## WEAR METALS

Iron	ppm	<b>3</b>	8	9	6
Copper	ppm	<b>&lt;1</b>	1	4	6
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>39</b>	38	42	50
Nickel	ppm	<b>&lt;1</b>	0	0	1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1695</b>	1648	1701	1778
Magnesium	ppm	<b>519</b>	468	496	524
Zinc	ppm	<b>1165</b>	996	1105	1206
Phosphorus	ppm	<b>949</b>	853	911	990
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>58</b>	33	39	48

**Depot:** VOLVO0117  
**Unique No:** 11100172  
**Signed:** Wes Davis  
**Report Date:** 01 Jul 2024

**VOLVO** **GRAPHS**

