



# CONSTRUCTION EQUIPMENT

CEMEX VOLVO L180H 5785 - DIESEL ENGINE



**Sample No:** VCP440005  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** CEMEX



## SAMPLE INFORMATION

Sample Number	<b>VCP440005</b>	VCP411600	VCP414713	---
Sample Date	<b>16 Jan 2024</b>	16 Oct 2023	14 Sep 2023	---
Machine Hours	<b>3171</b>	1214	628	---
Oil Hours	<b>0</b>	500	628	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.7	11.2	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.5	6.2	---
Oxidation (PA)	%	<b>75</b>	79	57	---

## 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>53</b>	59	78	---
Sulfation (PA)	%	<b>58</b>	61	51	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	---
Silicon	ppm	<b>3</b>	9	25	---
Sodium	ppm	<b>0</b>	3	<1	---
Potassium	ppm	<b>2</b>	2	4	---



## WEAR METALS

Iron	ppm	<b>3</b>	5	10	---
Copper	ppm	<b>&lt;1</b>	71	509	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	2	---
Aluminum	ppm	<b>2</b>	2	0	---
Chromium	ppm	<b>&lt;1</b>	<1	0	---
Molybdenum	ppm	<b>44</b>	44	86	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	2	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1492</b>	1733	2099	---
Magnesium	ppm	<b>547</b>	445	22	---
Zinc	ppm	<b>1104</b>	1154	1168	---
Phosphorus	ppm	<b>838</b>	937	974	---
Barium	ppm	<b>5</b>	0	2	---
Boron	ppm	<b>40</b>	35	44	---

**Depot:** VOLVO0093  
**Unique No:** 10863252  
**Signed:** Wes Davis  
**Report Date:** 06 Feb 2024



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## GRAPHS

