



# CONSTRUCTION EQUIPMENT

## 2616-1 VOLVO A25F 80103 - DIESEL ENGINE



**Sample No:** VCP407773  
**Oil Type:** CHEVRON DELO 400 MULTIGRADE 15W40  
**Job No:** 2616-1



### SAMPLE INFORMATION

Sample Number	<b>VCP407773</b>	VCP390151	VCP171313	VCP160748
Sample Date	<b>05 Sep 2023</b>	04 May 2023	23 Jan 2015	14 Nov 2014
Machine Hours	<b>6264</b>	6023	3494	3159
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	MARGINAL	NORMAL	MARGINAL

### MCCLUNG LOGAN

17941 SUSSEX HIGHWAY  
 BRIDGEVILLE, DE  
 US 19933

Contact: RANDY KING  
 rking@mcclung-logan.com  
 T: (302)337-3400  
 F: (302)337-9083



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.6</b>	■ 12.3	■ 13.89	<b>▲ 12.19</b>
Base Number (BN)	mg KOH/g	<b>■ 7.5</b>	■ 9.1	---	---
Oxidation (PA)	%	<b>56</b>	48	■ 56	■ 56



### CONTAMINATION

Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0	■ 0
Nitration (PA)	%	<b>48</b>	44	■ 58	■ 58
Sulfation (PA)	%	<b>55</b>	42	■ 47	■ 50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>▲ 5.2</b>	<b>▲ 3.4</b>	<1.0	<1.0
Silicon	ppm	<b>■ 6</b>	■ 6	■ 4	■ 6
Sodium	ppm	<b>■ 4</b>	■ 8	■ 5	■ 4
Potassium	ppm	<b>■ 1</b>	■ 15	■ <1	■ <1



### WEAR METALS

Iron	ppm	<b>■ 9</b>	■ 21	■ 5	■ 7
Copper	ppm	<b>■ 1</b>	■ 1	■ 1	■ 3
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 1
Tin	ppm	<b>■ &lt;1</b>	■ 1	■ 1	■ 1
Aluminum	ppm	<b>■ 3</b>	■ 2	■ 1	■ 2
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 82</b>	■ 58	■ 43	■ 42
Nickel	ppm	<b>■ &lt;1</b>	■ 2	■ 2	■ 4
Titanium	ppm	<b>■ &lt;1</b>	0	3	2
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	0



### ADDITIVES

Calcium	ppm	<b>■ 1454</b>	■ 1228	■ 1310	■ 1347
Magnesium	ppm	<b>467</b>	■ 938	■ 783	■ 809
Zinc	ppm	<b>1254</b>	■ 1332	■ 963	■ 954
Phosphorus	ppm	<b>■ 1032</b>	■ 1073	■ 857	■ 830
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>392</b>	■ 25	■ 23	■ 12

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO1023  
**Unique No:** 10642237  
**Signed:** Wes Davis  
**Report Date:** 12 Sep 2023



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## GRAPHS

