



# CONSTRUCTION EQUIPMENT

## A11326 VOLVO A30C 60035 - DIESEL ENGINE



**Sample No:** VCP430655  
**Oil Type:** MOBIL 15W40  
**Job No:** A11326



### SAMPLE INFORMATION

Sample Number	<b>VCP430655</b>	VCP408927	VCP365774	VCP293589
Sample Date	<b>20 Oct 2023</b>	27 Jun 2023	21 Nov 2022	12 Jan 2021
Machine Hours	<b>21415</b>	21170	20899	20400
Oil Hours	<b>250</b>	250	0	250
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	NORMAL

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
Contact: MATT MCCLELLAND  
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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.3</b>	▲ 11.8	█ 12.4	█ 12.1
Base Number (BN)	mg KOH/g	█ <b>7.6</b>	█ 8.7	█ 9.3	---
Oxidation (PA)	%	<b>57</b>	75	94	91

### CONTAMINATION

Soot %	%	█ <b>0.2</b>	█ 0.2	█ 0.5	█ 0.4
Nitration (PA)	%	<b>74</b>	83	92	97
Sulfation (PA)	%	<b>53</b>	60	72	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	█ 0.8	<1.0	<1.0
Silicon	ppm	█ <b>5</b>	█ 7	█ 10	█ 8
Sodium	ppm	▲ <b>93</b>	█ 16	█ 7	█ 13
Potassium	ppm	█ <b>4</b>	█ <1	█ <1	█ 0

**Diagnosis**  
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. 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.

### WEAR METALS

Iron	ppm	█ <b>23</b>	█ 24	█ 48	█ 38
Copper	ppm	█ <b>2</b>	█ 2	█ 3	█ 3
Lead	ppm	█ <b>5</b>	█ 4	▲ 55	█ 12
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ 1	█ 1
Aluminum	ppm	█ <b>1</b>	█ <1	█ 4	█ 5
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ 1	█ <1
Molybdenum	ppm	█ <b>40</b>	█ 32	█ 38	█ 30
Nickel	ppm	█ <b>&lt;1</b>	█ 0	█ 2	█ <1
Titanium	ppm	<b>6</b>	█ 36	█ 14	<1
Silver	ppm	█ <b>0</b>	█ 0	█ 0	0
Manganese	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Vanadium	ppm	<b>0</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	█ <b>1848</b>	█ 1804	█ 1647	█ 1722
Magnesium	ppm	█ <b>423</b>	█ 504	█ 502	█ 614
Zinc	ppm	█ <b>1169</b>	█ 1154	█ 1097	█ 967
Phosphorus	ppm	█ <b>906</b>	█ 981	█ 870	█ 845
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>15</b>	█ 78	█ 57	█ 37

**Depot:** DYEBIR  
**Unique No:** 10711595  
**Signed:** Jonathan Hester  
**Report Date:** 31 Oct 2023



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## GRAPHS

