



# CONSTRUCTION EQUIPMENT

## A12461 VOLVO A30C 60035 - DIESEL ENGINE



**Sample No:** VCP446445  
**Oil Type:** MOBIL 15W40  
**Job No:** A12461



### SAMPLE INFORMATION

Sample Number	<b>VCP446445</b>	VCP430655	VCP408927	VCP365774
Sample Date	<b>12 Apr 2024</b>	20 Oct 2023	27 Jun 2023	21 Nov 2022
Machine Hours	<b>21680</b>	21415	21170	20899
Oil Hours	<b>250</b>	250	250	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ABNORMAL

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

Visc @ 100°C	cSt	<b>11.6</b>	12.3	11.8	12.4
Base Number (BN)	mg KOH/g	<b>6.9</b>	7.6	8.7	9.3
Oxidation (PA)	%	<b>50</b>	57	75	94

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.5
Nitration (PA)	%	<b>69</b>	74	83	92
Sulfation (PA)	%	<b>51</b>	53	60	72
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.3</b>	<1.0	0.8	<1.0
Silicon	ppm	<b>5</b>	5	7	10
Sodium	ppm	<b>43</b>	93	16	7
Potassium	ppm	<b>5</b>	4	<1	<1

**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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### WEAR METALS

Iron	ppm	<b>21</b>	23	24	48
Copper	ppm	<b>2</b>	2	2	3
Lead	ppm	<b>4</b>	5	4	55
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	1	<1	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>21</b>	40	32	38
Nickel	ppm	<b>&lt;1</b>	<1	0	2
Titanium	ppm	<b>2</b>	6	36	14
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	<1

### ADDITIVES

Calcium	ppm	<b>2120</b>	1848	1804	1647
Magnesium	ppm	<b>196</b>	423	504	502
Zinc	ppm	<b>1114</b>	1169	1154	1097
Phosphorus	ppm	<b>948</b>	906	981	870
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>9</b>	15	78	57

**Depot:** DYEBIR  
**Unique No:** 10996692  
**Signed:** Jonathan Hester  
**Report Date:** 02 May 2024



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## VOLVO GRAPHS

