



# CONSTRUCTION EQUIPMENT

## A12508 VOLVO A30D 74083 - DIESEL ENGINE



**Sample No:** VCP438179  
**Oil Type:** MOBIL 15W40  
**Job No:** A12508



### SAMPLE INFORMATION

Sample Number	<b>VCP438179</b>	VCP430947	VCP421857	VCP427165
Sample Date	<b>25 Apr 2024</b>	20 Nov 2023	29 Aug 2023	30 Jun 2023
Machine Hours	<b>14255</b>	13990	13740	13545
Oil Hours	<b>250</b>	250	250	250
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	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>11.8</b>	11.6	12.2	11.6
Base Number (BN)	mg KOH/g	<b>6.8</b>	7.4	7.7	7.5
Oxidation (PA)	%	<b>39</b>	41	39	49

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.6	0.5	0.8
Nitration (PA)	%	<b>58</b>	54	58	69
Sulfation (PA)	%	<b>47</b>	48	45	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	2.4	2.9	3.7
Silicon	ppm	<b>5</b>	4	7	12
Sodium	ppm	<b>0</b>	2	3	4
Potassium	ppm	<b>3</b>	1	<1	2

**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. 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>10</b>	7	10	18
Copper	ppm	<b>2</b>	<1	2	3
Lead	ppm	<b>2</b>	<1	1	1
Tin	ppm	<b>2</b>	1	2	2
Aluminum	ppm	<b>2</b>	<1	3	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>11</b>	21	29	17
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>1</b>	3	5	3
Silver	ppm	<b>&lt;1</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>2065</b>	1691	1963	2035
Magnesium	ppm	<b>130</b>	309	391	207
Zinc	ppm	<b>1038</b>	1014	1136	1043
Phosphorus	ppm	<b>916</b>	872	990	867
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	15	23	20

**Depot:** DYEBIR  
**Unique No:** 11032253  
**Signed:** Jonathan Hester  
**Report Date:** 20 May 2024



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## GRAPHS

