



CONSTRUCTION EQUIPMENT

A11510 VOLVO A30D 74082 - DIESEL ENGINE



Sample No: VCP431245
Oil Type: MOBIL 15W40
Job No: A11510



SAMPLE INFORMATION

Sample Number	VCP431245	VCP408931	VCP399918	VCP367467
Sample Date	15 Nov 2023	27 Jun 2023	01 Mar 2023	13 Dec 2022
Machine Hours	12240	11975	11720	11530
Oil Hours	250	250	250	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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

Visc @ 100°C	cSt	▲ 12.2	▲ 12.3	▲ 12.2	■ 12.6
Base Number (BN)	mg KOH/g	■ 7.5	■ 8.1	■ 10.3	■ 8.4
Oxidation (PA)	%	43	48	75	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.8	■ 0.7	■ 0.4	■ 0.9
Nitration (PA)	%	57	63	54	81
Sulfation (PA)	%	50	51	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 1.0	■ 1.5
Silicon	ppm	■ 3	■ 3	■ 5	■ 5
Sodium	ppm	■ 1	■ 2	■ 2	■ 2
Potassium	ppm	■ <1	■ 0	■ 0	■ 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. 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	■ 6	■ 8	■ 6	■ 12
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 1	■ <1	■ <1	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 25	■ 20	■ 45	■ 78
Nickel	ppm	■ <1	■ 0	■ <1	■ 2
Titanium	ppm	<1	<1	<1	2
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ 0	■ 1	■ <1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	■ 1722	■ 2079	■ 1689	■ 2136
Magnesium	ppm	■ 351	■ 227	■ 435	■ 117
Zinc	ppm	■ 1062	■ 1065	■ 1098	■ 1227
Phosphorus	ppm	■ 899	■ 903	■ 900	■ 1037
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 11	■ 13	■ 57	■ 53

Depot: DYEBIR
Unique No: 10764785
Signed: Angela Borella
Report Date: 01 Dec 2023



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VOLVO GRAPHS

