



CONSTRUCTION EQUIPMENT

A10575 VOLVO A30D 74082 - DIESEL ENGINE



Sample No: VCP408931
Oil Type: MOBIL 15W40
Job No: A10575



SAMPLE INFORMATION

Sample Number	VCP408931	VCP399918	VCP367467	VCP358764
Sample Date	27 Jun 2023	01 Mar 2023	13 Dec 2022	16 Jun 2022
Machine Hours	11975	11720	11530	11228
Oil Hours	250	250	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ABNORMAL

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

Visc @ 100°C	cSt	▲ 12.3	▲ 12.2	■ 12.6	▲ 11.7
Base Number (BN)	mg KOH/g	■ 8.1	■ 10.3	■ 8.4	■ 10.3
Oxidation (PA)	%	48	75	61	74

CONTAMINATION

Soot %	%	■ 0.7	■ 0.4	■ 0.9	■ 0.7
Nitration (PA)	%	63	54	81	66
Sulfation (PA)	%	51	61	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.0	■ 1.5	▲ 3.5
Silicon	ppm	■ 3	■ 5	■ 5	■ 6
Sodium	ppm	■ 2	■ 2	■ 2	■ 2
Potassium	ppm	■ 0	■ 0	■ 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. 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	■ 8	■ 6	■ 12	■ 13
Copper	ppm	■ <1	■ <1	■ <1	■ 1
Lead	ppm	■ 0	■ <1	■ <1	■ 1
Tin	ppm	■ <1	■ <1	■ <1	■ 1
Aluminum	ppm	■ <1	■ <1	■ 2	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 20	■ 45	■ 78	■ 51
Nickel	ppm	■ 0	■ <1	■ 2	■ 2
Titanium	ppm	<1	<1	2	<1
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ 0	■ 1	■ <1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 2079	■ 1689	■ 2136	■ 1664
Magnesium	ppm	■ 227	■ 435	■ 117	■ 500
Zinc	ppm	■ 1065	■ 1098	■ 1227	■ 1083
Phosphorus	ppm	■ 903	■ 900	■ 1037	■ 878
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 13	■ 57	■ 53	■ 68

Depot: DYEBIR
Unique No: 10547695
Signed: Don Baldrige
Report Date: 10 Jul 2023



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VOLVO GRAPHS

