



CONSTRUCTION EQUIPMENT

A10574 VOLVO A30D 74083 - DIESEL ENGINE



Sample No: VCP427165
Oil Type: MOBIL 15W40
Job No: A10574



SAMPLE INFORMATION

Sample Number	VCP427165	VCP396676	VCP399929	VCP377091
Sample Date	30 Jun 2023	21 Mar 2023	01 Mar 2023	06 May 2022
Machine Hours	13545	13265	13200	12906
Oil Hours	250	0	258	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	MARGINAL	SEVERE	NORMAL

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

Visc @ 100°C	cSt	▲ 11.6	■ 12.3	▲ 11.0	■ 12.4
Base Number (BN)	mg KOH/g	■ 7.5	■ 7.9	■ 9.3	■ 9.7
Oxidation (PA)	%	49	42	69	80

CONTAMINATION

Soot %	%	■ 0.8	■ 0.2	■ 0.5	■ 0.8
Nitration (PA)	%	69	47	60	72
Sulfation (PA)	%	53	45	58	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.7	▲ 2.3	▲ 5.9	<1.0
Silicon	ppm	■ 12	■ 12	■ 45	■ 7
Sodium	ppm	■ 4	■ 3	■ 11	■ 2
Potassium	ppm	■ 2	■ 3	■ 10	■ 1

WEAR METALS

Iron	ppm	■ 18	■ 7	■ 19	■ 16
Copper	ppm	■ 3	■ 1	■ 7	■ 1
Lead	ppm	■ 1	■ <1	■ 2	■ 1
Tin	ppm	■ 2	■ <1	■ 3	■ <1
Aluminum	ppm	■ <1	■ 0	■ 2	■ 4
Chromium	ppm	■ <1	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 17	■ 16	■ 31	■ 42
Nickel	ppm	■ <1	■ 0	■ 1	■ 0
Titanium	ppm	3	<1	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	0
Manganese	ppm	■ <1	■ <1	■ 2	■ <1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	■ 2035	■ 1972	■ 1797	■ 1725
Magnesium	ppm	■ 207	■ 187	■ 255	■ 527
Zinc	ppm	■ 1043	■ 1053	■ 1089	■ 1169
Phosphorus	ppm	■ 867	■ 894	■ 885	■ 965
Barium	ppm	■ 0	■ 2	■ 0	■ 0
Boron	ppm	■ 20	■ 20	■ 100	■ 50

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: DYEBIR
Unique No: 10547699
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

