



CONSTRUCTION EQUIPMENT

A11511 VOLVO A30D 74083 - DIESEL ENGINE



Sample No: VCP430947
Oil Type: MOBIL 15W40
Job No: A11511



SAMPLE INFORMATION

Sample Number	VCP430947	VCP421857	VCP427165	VCP396676
Sample Date	20 Nov 2023	29 Aug 2023	30 Jun 2023	21 Mar 2023
Machine Hours	13990	13740	13545	13265
Oil Hours	250	250	250	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	MARGINAL

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

Visc @ 100°C	cSt	▲ 11.6	■ 12.2	▲ 11.6	■ 12.3
Base Number (BN)	mg KOH/g	■ 7.4	■ 7.7	■ 7.5	■ 7.9
Oxidation (PA)	%	41	39	49	42

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.6	■ 0.5	■ 0.8	■ 0.2
Nitration (PA)	%	54	58	69	47
Sulfation (PA)	%	48	45	53	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 2.4	■ 2.9	▲ 3.7	▲ 2.3
Silicon	ppm	■ 4	■ 7	■ 12	■ 12
Sodium	ppm	■ 2	■ 3	■ 4	■ 3
Potassium	ppm	■ 1	■ <1	■ 2	■ 3

WEAR METALS

Iron	ppm	■ 7	■ 10	■ 18	■ 7
Copper	ppm	■ <1	■ 2	■ 3	■ 1
Lead	ppm	■ <1	■ 1	■ 1	■ <1
Tin	ppm	■ 1	■ 2	■ 2	■ <1
Aluminum	ppm	■ <1	■ 3	■ <1	■ 0
Chromium	ppm	■ <1	■ 0	■ <1	■ 0
Molybdenum	ppm	■ 21	■ 29	■ 17	■ 16
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	3	5	3	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1691	■ 1963	■ 2035	■ 1972
Magnesium	ppm	■ 309	■ 391	■ 207	■ 187
Zinc	ppm	■ 1014	■ 1136	■ 1043	■ 1053
Phosphorus	ppm	■ 872	■ 990	■ 867	■ 894
Barium	ppm	■ 0	■ 0	■ 0	■ 2
Boron	ppm	■ 15	■ 23	■ 20	■ 20

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. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: DYEBIR
Unique No: 10764786
Signed: Angela Borella
Report Date: 01 Dec 2023

VOLVO **GRAPHS**

