



CONSTRUCTION EQUIPMENT

A10964 VOLVO A30D 74083 - DIESEL ENGINE



Sample No: VCP421857
Oil Type: MOBIL 15W40
Job No: A10964



SAMPLE INFORMATION

Sample Number	VCP421857	VCP427165	VCP396676	VCP399929
Sample Date	29 Aug 2023	30 Jun 2023	21 Mar 2023	01 Mar 2023
Machine Hours	13740	13545	13265	13200
Oil Hours	250	250	0	258
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	MARGINAL	SEVERE

DYER QUARRY
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OIL CONDITION

Visc @ 100°C	cSt	12.2	11.6	12.3	11.0
Base Number (BN)	mg KOH/g	7.7	7.5	7.9	9.3
Oxidation (PA)	%	39	49	42	69

CONTAMINATION

Soot %	%	0.5	0.8	0.2	0.5
Nitration (PA)	%	58	69	47	60
Sulfation (PA)	%	45	53	45	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.9	3.7	2.3	5.9
Silicon	ppm	7	12	12	45
Sodium	ppm	3	4	3	11
Potassium	ppm	<1	2	3	10

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	10	18	7	19
Copper	ppm	2	3	1	7
Lead	ppm	1	1	<1	2
Tin	ppm	2	2	<1	3
Aluminum	ppm	3	<1	0	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	29	17	16	31
Nickel	ppm	0	<1	0	1
Titanium	ppm	5	3	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1963	2035	1972	1797
Magnesium	ppm	391	207	187	255
Zinc	ppm	1136	1043	1053	1089
Phosphorus	ppm	990	867	894	885
Barium	ppm	0	0	2	0
Boron	ppm	23	20	20	100

Depot: DYEBIR
Unique No: 10648358
Signed: Wes Davis
Report Date: 19 Sep 2023



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GRAPHS

