



CONSTRUCTION EQUIPMENT

9878 RITCHIE LAND VOLVO A30G 742561 - DIESEL ENGINE



Sample No: VCP412684
Oil Type: CHEVRON 15W40
Job No: 9878 RITCHIE LAND



SAMPLE INFORMATION

Sample Number	VCP412684	VCP413828	VCP408901	VCP404430
Sample Date	22 Nov 2023	27 Sep 2023	11 Jul 2023	27 Mar 2023
Machine Hours	4317	4083	3872	8448
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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 CLARKSBURG, MD
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.4	▲ 12.1	▲ 12.1
Base Number (BN)	mg KOH/g	■ 7.0	■ 7.8	■ 7.5	■ 7.7
Oxidation (PA)	%	58	59	60	61

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.2	■ 0.2
Nitration (PA)	%	49	50	56	55
Sulfation (PA)	%	58	57	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 4	■ 4	■ 4	■ 4
Sodium	ppm	■ 1	■ 3	■ 1	■ 1
Potassium	ppm	■ 1	■ 3	■ <1	■ <1

WEAR METALS

Iron	ppm	■ <1	■ 2	■ 4	■ 5
Copper	ppm	■ 0	■ 0	■ <1	■ <1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 3	■ 1	■ 1	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 76	■ 88	■ 89	■ 95
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	2	2	1	2
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	■ 1301	■ 1378	■ 1401	■ 1501
Magnesium	ppm	■ 386	■ 398	■ 439	■ 516
Zinc	ppm	■ 1212	■ 1219	■ 1173	■ 1166
Phosphorus	ppm	■ 1110	■ 1041	■ 974	■ 966
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 402	■ 479	■ 400	■ 384

Depot: PLECLA
Unique No: 10756820
Signed: Doug Bogart
Report Date: 28 Nov 2023



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GRAPHS

