



CONSTRUCTION EQUIPMENT

9128 VOLVO A30G 742511 - DIESEL ENGINE



Sample No: VCP412700
Oil Type: CHEVRON 15W40
Job No: 9128



SAMPLE INFORMATION

Sample Number	VCP412700	VCP361169	VCP314630	VCP291505
Sample Date	28 Jul 2023	02 Jun 2022	13 Oct 2021	03 Nov 2020
Machine Hours	3236	2431	2027	1607
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	▲ 11.6	▲ 11.5	▲ 11.3
Base Number (BN)	mg KOH/g	■ 6.9	■ 9.1	---	---
Oxidation (PA)	%	64	67	63	56

CONTAMINATION

Soot %	%	■ 0.3	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	68	62	70	78
Sulfation (PA)	%	60	64	60	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 5.3	▲ 4.5	▲ 5.2	▲ 5.4
Silicon	ppm	■ 6	■ 6	■ 4	■ 5
Sodium	ppm	■ 0	■ 1	■ 0	■ 2
Potassium	ppm	■ 5	■ <1	■ 1	■ 1

WEAR METALS

Iron	ppm	■ 13	■ 6	■ 6	■ 9
Copper	ppm	■ 8	■ 1	■ 3	■ 12
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ 1
Aluminum	ppm	■ 2	■ 3	■ 1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 124	■ 107	■ 94	■ 25
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	1	6	▲ 14
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	■ 1592	■ 1483	■ 1499	■ 1445
Magnesium	ppm	■ 497	■ 627	■ 615	■ 683
Zinc	ppm	■ 1045	■ 838	■ 771	■ 756
Phosphorus	ppm	■ 911	■ 670	■ 701	■ 667
Barium	ppm	■ 3	■ 0	■ 0	■ 0
Boron	ppm	■ 298	■ 338	■ 233	■ 67

Diagnosis

We advise that you check the fuel injection system. 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 a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: RELMIL
Unique No: 10586154
Signed: Don Baldrige
Report Date: 05 Aug 2023



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GRAPHS

