



CONSTRUCTION EQUIPMENT

9944 VOLVO A30G 7425 11 - DIESEL ENGINE



Sample No: VCP422879
Oil Type: CHEVRON 15W40
Job No: 9944



SAMPLE INFORMATION

Sample Number	VCP422879	VCP413937	VCP412700	VCP361169
Sample Date	22 Nov 2023	17 Aug 2023	28 Jul 2023	02 Jun 2022
Machine Hours	3451	3258	3236	2431
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
 GAMBRILLS, MD
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	■ 13.2	▲ 10.9	▲ 11.6
Base Number (BN)	mg KOH/g	■ 7.9	■ 8.6	■ 6.9	■ 9.1
Oxidation (PA)	%	57	57	64	67

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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.3	■ 0.2
Nitration (PA)	%	48	40	68	62
Sulfation (PA)	%	57	56	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.0	■ 1.3	▲ 5.3	▲ 4.5
Silicon	ppm	■ 4	■ 4	■ 6	■ 6
Sodium	ppm	■ 1	■ 0	■ 0	■ 1
Potassium	ppm	■ 1	■ 0	■ 5	■ <1



WEAR METALS

Iron	ppm	■ 2	■ 3	■ 13	■ 6
Copper	ppm	■ 1	■ 2	■ 8	■ 1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 2	■ 3
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 78	■ 87	■ 124	■ 107
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	1	1	<1	1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ <1	■ 0	■ 0	■ 0



ADDITIVES

Calcium	ppm	■ 1289	■ 1428	■ 1592	■ 1483
Magnesium	ppm	■ 379	■ 440	■ 497	■ 627
Zinc	ppm	■ 1170	■ 1255	■ 1045	■ 838
Phosphorus	ppm	■ 1057	■ 1056	■ 911	■ 670
Barium	ppm	■ 0	■ 0	■ 3	■ 0
Boron	ppm	■ 399	■ 532	■ 298	■ 338

Depot: RELMIL
Unique No: 10756822
Signed: Sean Felton
Report Date: 29 Nov 2023



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GRAPHS

