



CONSTRUCTION EQUIPMENT

9940 VOLVO A25G 742211 - DIESEL ENGINE



Sample No: VCP388523
Oil Type: CHEVRON 15W40
Job No: 9940



SAMPLE INFORMATION

Sample Number	VCP388523	VCP315485	VCP308401	VCP272130
Sample Date	21 Nov 2023	18 Oct 2021	23 Apr 2021	03 Aug 2020
Machine Hours	3537	2635	2062	1555
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

RELIABLE CONTRACTING
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 11.5	▲ 11.2	▲ 11.9
Base Number (BN)	mg KOH/g	■ 8.0	---	---	---
Oxidation (PA)	%	55	65	71	54

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	56	64	67	76
Sulfation (PA)	%	52	61	58	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 3.7	▲ 2.7	▲ 2.7
Silicon	ppm	■ 4	■ 7	■ 4	■ 6
Sodium	ppm	■ 1	■ 2	■ 3	■ 2
Potassium	ppm	■ 1	■ 0	■ <1	■ 2

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.

WEAR METALS

Iron	ppm	■ 2	■ 6	■ 6	■ 6
Copper	ppm	■ <1	■ 1	■ 5	■ 25
Lead	ppm	■ <1	■ 2	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 4	■ 0	■ 1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 57	■ 87	■ 39	■ 23
Nickel	ppm	■ <1	■ <1	■ 0	■ <1
Titanium	ppm	<1	<1	2	■ 12
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1678	■ 1600	■ 1481	■ 1416
Magnesium	ppm	■ 388	■ 599	■ 490	■ 646
Zinc	ppm	■ 1119	■ 879	■ 969	■ 709
Phosphorus	ppm	■ 1023	■ 558	■ 842	■ 672
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 102	■ 219	■ 64	■ 65

Depot: RELMIL
Unique No: 10756818
Signed: Jonathan Hester
Report Date: 29 Nov 2023

VOLVO GRAPHS

