



CONSTRUCTION EQUIPMENT

SWO-066005 VOLVO A40G 341023 - DIESEL ENGINE



Sample No: VCP435426
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-066005



SAMPLE INFORMATION

Sample Number	VCP435426	VCP408953	VCP396176	VCP369103
Sample Date	20 Sep 2023	13 Jun 2023	07 Mar 2023	03 Nov 2022
Machine Hours	8472	7952	7404	6919
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.3	▲ 12.4	■ 12.7
Base Number (BN)	mg KOH/g	■ 9.3	■ 9.0	■ 10.4	■ 11.6
Oxidation (PA)	%	78	83	78	87



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.1	■ 0.2
Nitration (PA)	%	55	60	58	66
Sulfation (PA)	%	58	60	59	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 0.6	<1.0
Silicon	ppm	■ 10	■ 7	■ 7	■ 6
Sodium	ppm	■ 2	■ 13	■ 2	■ 2
Potassium	ppm	■ 2	■ 0	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 12	■ 10	■ 8	■ 8
Copper	ppm	■ <1	■ 0	■ 0	■ <1
Lead	ppm	■ 1	■ 1	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 4	■ 3	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 43	■ 42	■ 42
Nickel	ppm	■ 1	■ 0	■ <1	■ <1
Titanium	ppm	■ <1	■ <1	■ <1	■ <1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1755	■ 1544	■ 1624	■ 1613
Magnesium	ppm	■ 489	■ 513	■ 530	■ 509
Zinc	ppm	■ 1144	■ 892	■ 1096	■ 1112
Phosphorus	ppm	■ 979	■ 756	■ 890	■ 902
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 43	■ 51	■ 55	■ 38

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. No other contaminants were detected 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.

Depot: SAIBIR
Unique No: 10660727
Signed: Sean Felton
Report Date: 26 Sep 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

