



CONSTRUCTION EQUIPMENT

A10540 VOLVO A40G 342316 - DIESEL ENGINE



Sample No: VCP411873
Oil Type: MOBIL 15W40
Job No: A10540



SAMPLE INFORMATION

Sample Number	VCP411873	VCP378614	VCP320249	VCP308753
Sample Date	06 Jul 2023	09 Sep 2022	09 Sep 2021	20 Apr 2021
Machine Hours	5600	4930	4315	0
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

K C CONSTRUCTION
 1737 STOUT DRIVE
 IVYLAND, PA
 US 18974
 Contact: DUKE D.
 duked@kcconstruct.com
 T: (267)784-7337
 F: x:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 11.5	▲ 12.3	■ 12.8
Base Number (BN)	mg KOH/g	■ 7.6	■ 9.5	---	---
Oxidation (PA)	%	61	83	74	65

CONTAMINATION

Water	%	---	---	---	■ 0.101
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	67	73	58	68
Sulfation (PA)	%	52	65	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.2	■ 1.0	<1.0
Silicon	ppm	■ 4	■ 4	■ 5	■ 6
Sodium	ppm	■ 4	■ 9	■ 6	■ 4
Potassium	ppm	■ 1	■ 3	■ 0	■ <1

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	■ 13	■ 17	■ 15	■ 13
Copper	ppm	■ 7	■ 24	■ 6	■ 6
Lead	ppm	■ <1	■ 2	■ <1	■ 1
Tin	ppm	■ <1	■ 1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 1	■ 3	■ 3
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 36	■ 46	■ 50	■ 103
Nickel	ppm	■ <1	■ 1	■ 0	■ <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	■ 1882	■ 1561	■ 1600	■ 1349
Magnesium	ppm	■ 511	■ 447	■ 509	■ 565
Zinc	ppm	■ 1235	■ 1033	■ 1111	■ 905
Phosphorus	ppm	■ 1016	■ 827	■ 948	■ 757
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 19	■ 60	■ 59	■ 204

Depot: KCCIVY
Unique No: 10559743
Signed: Don Baldrige
Report Date: 17 Jul 2023



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VOLVO GRAPHS

