



CONSTRUCTION EQUIPMENT

WO7012686 VOLVO A40G 341245 - DIESEL ENGINE



Sample No: VCP425047
Oil Type: MOBIL 15W40
Job No: WO7012686



SAMPLE INFORMATION

Sample Number	VCP425047	VCP246333	VCP246321	VCP331643
Sample Date	21 Jul 2023	13 Jan 2023	24 Jun 2022	10 Dec 2021
Machine Hours	7168	6711	6300	5667
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

McClung-Logan Virginia LLC- RICHMOND
1345 MOUNTAIN ROAD
GLEN ALLEN, VA
US 23060
Contact: KYLE RATLIFFE
KRATLIFFE@MCCLUNG-LOGAN.COM
T:
F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	█ 12.8	█ 12.6	▲ 12.3
Base Number (BN)	mg KOH/g	█ 7.8	█ 7.9	█ 7.7	█ 7.4
Oxidation (PA)	%	60	59	70	73

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	█ 0.3	█ 0.2
Nitration (PA)	%	68	78	78	85
Sulfation (PA)	%	51	52	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	█ 0.2
Silicon	ppm	█ 5	█ 4	█ 7	█ 5
Sodium	ppm	█ 2	█ 0	█ 2	█ 3
Potassium	ppm	█ <1	█ 0	█ <1	█ 0



WEAR METALS

Iron	ppm	█ 7	█ 3	█ 12	█ 8
Copper	ppm	█ <1	█ <1	█ 3	█ 2
Lead	ppm	█ <1	█ 0	█ 1	█ 1
Tin	ppm	█ <1	█ 0	█ 1	█ <1
Aluminum	ppm	█ 2	█ 1	█ 3	█ 3
Chromium	ppm	█ <1	█ <1	█ 1	█ <1
Molybdenum	ppm	█ 55	█ 34	█ 35	█ 48
Nickel	ppm	█ <1	█ 0	█ 1	█ 1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	<1	█ <1	█ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	█ 2074	█ 1548	█ 1828	█ 1320
Magnesium	ppm	█ 303	█ 430	█ 415	711
Zinc	ppm	█ 1254	█ 860	█ 1149	█ 905
Phosphorus	ppm	█ 1034	705	█ 896	█ 731
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 49	█ 19	█ 35	█ 29

Depot: VOLVO8882
Unique No: 10603840
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

