



CONSTRUCTION EQUIPMENT

W05003922 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP418772
Oil Type: MOBIL 15W40
Job No: W05003922



SAMPLE INFORMATION

Sample Number	VCP418772	VCP420892	VCP420899	VCP418062
Sample Date	26 Oct 2023	12 Sep 2023	03 Aug 2023	23 Jun 2023
Machine Hours	10561	10241	9977	9810
Oil Hours	250	500	500	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS
8450 QUARRY ROAD
MANASSAS, VA
US 20110
Contact: MIKE MAYHUGH
MMAYHUGH@MCCLUNG-LOGAN.COM
T: (703)393-7344
F: (703)393-7844



OIL CONDITION

Visc @ 100°C	cSt	13.01	13.0	13.0	13.0
Base Number (BN)	mg KOH/g	9.0	9.2	8.7	9.0
Oxidation (PA)	%	62	61	59	62



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	50	48	45	51
Sulfation (PA)	%	61	59	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	5	3	6	8
Potassium	ppm	4	1	3	6



WEAR METALS

Iron	ppm	4	2	2	2
Copper	ppm	0	<1	<1	0
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	98	111	125	119
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1429	1551	1632	1726
Magnesium	ppm	541	624	653	634
Zinc	ppm	780	925	889	987
Phosphorus	ppm	642	771	748	801
Barium	ppm	0	0	0	0
Boron	ppm	374	322	364	342

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 acceptable for the time in service.

Depot: VOLVO0002
Unique No: 10725359
Signed: Doug Bogart
Report Date: 07 Nov 2023



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VOLVO GRAPHS

