



CONSTRUCTION EQUIPMENT

W05004003 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP189544
Oil Type: MOBIL 15W40
Job No: W05004003



SAMPLE INFORMATION

Sample Number	VCP189544	VCP420840	VCP418772	VCP420892
Sample Date	08 Jan 2024	27 Oct 2023	26 Oct 2023	12 Sep 2023
Machine Hours	11033	10775	10561	10241
Oil Hours	250	250	250	500
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	13.0	12.8	13.01	13.0
Base Number (BN)	mg KOH/g	8.6	9.0	9.0	9.2
Oxidation (PA)	%	70	65	62	61

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	63	49	50	48
Sulfation (PA)	%	65	62	61	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	<1	5	5	3
Potassium	ppm	<1	5	4	1



WEAR METALS

Iron	ppm	1	3	4	2
Copper	ppm	0	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	2	0
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	113	120	98	111
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1579	1500	1429	1551
Magnesium	ppm	626	598	541	624
Zinc	ppm	933	855	780	925
Phosphorus	ppm	735	697	642	771
Barium	ppm	0	2	0	0
Boron	ppm	300	363	374	322

Depot: VOLVO0002
Unique No: 10823583
Signed: Sean Felton
Report Date: 12 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

