



CONSTRUCTION EQUIPMENT

W07012762 VOLVO A45G 342655 - DIESEL ENGINE



Sample No: VCP367764
Oil Type: MOBIL 15W40
Job No: W07012762



SAMPLE INFORMATION

Sample Number	VCP367764	VCP400980	VCP347910	VCP312932
Sample Date	12 Sep 2023	27 Feb 2023	17 May 2022	08 Feb 2022
Machine Hours	6616	5355	4217	3700
Oil Hours	500	1100	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	13.2	13.0	13.2	12.9
Base Number (BN)	mg KOH/g	5.5	5.7	8.3	7.8
Oxidation (PA)	%	85	79	75	77



CONTAMINATION

Soot %	%	0.8	0.6	0.5	0.5
Nitration (PA)	%	95	93	82	88
Sulfation (PA)	%	65	63	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	4	3	3	3
Potassium	ppm	2	1	1	0



WEAR METALS

Iron	ppm	18	13	8	11
Copper	ppm	4	4	2	3
Lead	ppm	5	2	<1	2
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	1	4	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	54	47	56
Nickel	ppm	1	2	1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1354	1314	1369	1320
Magnesium	ppm	711	664	680	753
Zinc	ppm	930	897	1007	887
Phosphorus	ppm	683	614	803	738
Barium	ppm	0	0	0	0
Boron	ppm	18	17	45	39

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.

Depot: VOLVO8882
Unique No: 10660733
Signed: Wes Davis
Report Date: 26 Sep 2023



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GRAPHS

