



CONSTRUCTION EQUIPMENT

W05003864 VOLVO A45G 342679 - DIESEL ENGINE



Sample No: VCP420887
Oil Type: MOBIL 15W40
Job No: W05003864



SAMPLE INFORMATION

Sample Number	VCP420887	VCP420844	VCP416211	VCP419602
Sample Date	05 Oct 2023	29 Aug 2023	23 Jun 2023	04 May 2023
Machine Hours	7666	7349	6984	6766
Oil Hours	250	250	250	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	13.0	13.0
Base Number (BN)	mg KOH/g	8.4	8.8	9.0	9.1
Oxidation (PA)	%	62	63	63	63

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 %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	50	53	52	48
Sulfation (PA)	%	61	62	62	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	2	2	2	1
Potassium	ppm	0	3	1	<1



WEAR METALS

Iron	ppm	3	4	2	2
Copper	ppm	<1	3	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	4	3	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	125	128	130	119
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1459	1660	1729	1451
Magnesium	ppm	627	702	692	609
Zinc	ppm	778	951	991	820
Phosphorus	ppm	670	784	802	685
Barium	ppm	0	0	0	0
Boron	ppm	359	357	388	380

Depot: VOLVO0002
Unique No: 10696515
Signed: Don Baldrige
Report Date: 17 Oct 2023



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GRAPHS

