



CONSTRUCTION EQUIPMENT

W05003818 VOLVO A45G 342679 - DIESEL ENGINE



Sample No: VCP420844
Oil Type: MOBIL 15W40
Job No: W05003818



SAMPLE INFORMATION

Sample Number	VCP420844	VCP416211	VCP419602	VCP395333
Sample Date	29 Aug 2023	23 Jun 2023	04 May 2023	22 Mar 2023
Machine Hours	7349	6984	6766	6564
Oil Hours	250	250	500	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.0	13.0	12.7
Base Number (BN)	mg KOH/g	8.8	9.0	9.1	8.8
Oxidation (PA)	%	63	63	63	62

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



WEAR METALS

Iron	ppm	4	2	2	2
Copper	ppm	3	0	<1	0
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	2	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	128	130	119	111
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1660	1729	1451	1617
Magnesium	ppm	702	692	609	703
Zinc	ppm	951	991	820	944
Phosphorus	ppm	784	802	685	751
Barium	ppm	0	0	0	0
Boron	ppm	357	388	380	318

Depot: VOLVO0002
Unique No: 10631067
Signed: Sean Felton
Report Date: 05 Sep 2023



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VOLVO GRAPHS

