



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - DIESEL ENGINE



Sample No: VCP404644
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP404644	VCP402356	VCP359541	VCP385246
Sample Date	24 Aug 2023	13 Jul 2023	18 May 2023	06 Mar 2023
Machine Hours	9142	8893	8626	8373
Oil Hours	249	267	253	299
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.7	12.6
Base Number (BN)	mg KOH/g	10.5	10.0	10.1	10.0
Oxidation (PA)	%	80	79	81	78

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	0.1	0.1	0.1
Nitration (PA)	%	52	53	52	53
Sulfation (PA)	%	61	60	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	6	5
Sodium	ppm	6	<1	5	7
Potassium	ppm	2	2	4	2



WEAR METALS

Iron	ppm	8	7	8	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	<1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	37	42	38	40
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1648	1685	1741	1684
Magnesium	ppm	520	483	517	484
Zinc	ppm	859	905	938	900
Phosphorus	ppm	725	773	734	765
Barium	ppm	2	2	0	2
Boron	ppm	51	58	56	63

Depot: SCHGRE
Unique No: 10633960
Signed: Wes Davis
Report Date: 07 Sep 2023



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GRAPHS

