



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - DIESEL ENGINE



Sample No: VCP402356
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP402356	VCP359541	VCP385246	VCP379381
Sample Date	13 Jul 2023	18 May 2023	06 Mar 2023	16 Jan 2023
Machine Hours	8893	8626	8373	8074
Oil Hours	267	253	299	323
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.6	12.8
Base Number (BN)	mg KOH/g	10.0	10.1	10.0	10.5
Oxidation (PA)	%	79	81	78	80

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	1685	1741	1684	1805
Magnesium	ppm	483	517	484	512
Zinc	ppm	905	938	900	917
Phosphorus	ppm	773	734	765	776
Barium	ppm	2	0	2	0
Boron	ppm	58	56	63	56

Depot: SCHGRE
Unique No: 10586118
Signed: Jonathan Hester
Report Date: 03 Aug 2023



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VOLVO GRAPHS

