



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - DIESEL ENGINE



Sample No: VCP406466
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406466	VCP384402	VCP385140	VCP362739
Sample Date	13 Jul 2023	30 May 2023	27 Apr 2023	06 Mar 2023
Machine Hours	6886	6612	6384	6020
Oil Hours	274	228	364	303
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.6	12.5	12.4
Base Number (BN)	mg KOH/g	9.9	9.8	8.7	9.9
Oxidation (PA)	%	80	80	76	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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	53	53	55
Sulfation (PA)	%	60	61	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	6	5
Sodium	ppm	0	5	12	22
Potassium	ppm	2	<1	5	10



WEAR METALS

Iron	ppm	3	3	6	7
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	43	40	42	40
Nickel	ppm	<1	0	1	2
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1663	1707	1826	1655
Magnesium	ppm	479	500	531	478
Zinc	ppm	900	901	907	893
Phosphorus	ppm	764	722	793	745
Barium	ppm	2	0	0	2
Boron	ppm	58	56	53	66

Depot: SCHGRE
Unique No: 10586119
Signed: Jonathan Hester
Report Date: 03 Aug 2023



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VOLVO GRAPHS

