



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - DIESEL ENGINE



Sample No: VCP405244
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP405244	VCP402319	VCP342183	VCP406833
Sample Date	29 Aug 2023	19 Jul 2023	06 Jun 2023	02 May 2023
Machine Hours	5785	5478	5215	4995
Oil Hours	307	263	220	300
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.5	12.7	12.8
Base Number (BN)	mg KOH/g	10.0	10.0	9.9	8.8
Oxidation (PA)	%	81	80	80	74

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)	%	56	53	53	52
Sulfation (PA)	%	61	60	61	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	4	5
Sodium	ppm	10	3	15	22
Potassium	ppm	4	4	6	9



WEAR METALS

Iron	ppm	4	2	3	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	<1	<1	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	37	43	40	41
Nickel	ppm	0	<1	2	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1648	1681	1620	1775
Magnesium	ppm	516	483	491	540
Zinc	ppm	855	896	910	914
Phosphorus	ppm	722	777	751	798
Barium	ppm	2	2	0	0
Boron	ppm	48	57	55	53

Depot: SCHGRE
Unique No: 10633956
Signed: Wes Davis
Report Date: 07 Sep 2023



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GRAPHS

