



CONSTRUCTION EQUIPMENT

VOLVO A40G 342608 - DIESEL ENGINE



Sample No: VCP447658
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447658	VCP444702	VCP433287	VCP416949
Sample Date	18 Jun 2024	29 Apr 2024	02 Apr 2024	13 Feb 2024
Machine Hours	12203	11939	11716	11353
Oil Hours	264	218	363	293
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.8	12.8
Base Number (BN)	mg KOH/g	10.0	9.5	8.3	7.6
Oxidation (PA)	%	79	75	73	68

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	55	53	69	67
Sulfation (PA)	%	60	58	56	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	6
Sodium	ppm	3	3	6	11
Potassium	ppm	2	1	6	8



WEAR METALS

Iron	ppm	4	2	7	7
Copper	ppm	<1	2	1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	4	7	6
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	41	47	73	85
Nickel	ppm	0	0	1	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1585	1612	1489	1262
Magnesium	ppm	484	502	538	520
Zinc	ppm	891	864	876	808
Phosphorus	ppm	736	755	773	636
Barium	ppm	0	0	0	34
Boron	ppm	52	66	75	78

Depot: SCHGRE
Unique No: 11110466
Signed: Don Baldrige
Report Date: 05 Jul 2024



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GRAPHS

