



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - DIESEL ENGINE



Sample No: VCP443364
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP443364	VCP442847	VCP442504	VCP442859
Sample Date	19 Apr 2024	11 Mar 2024	05 Feb 2024	06 Dec 2023
Machine Hours	11686	11433	11196	10949
Oil Hours	253	237	247	252
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.5	12.7
Base Number (BN)	mg KOH/g	10.0	9.7	8.4	7.0
Oxidation (PA)	%	77	75	69	59

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 %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	51	54	58	68
Sulfation (PA)	%	59	58	55	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	7
Sodium	ppm	6	6	7	18
Potassium	ppm	2	4	7	13



WEAR METALS

Iron	ppm	4	4	5	4
Copper	ppm	<1	1	1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	1	<1	0	0
Aluminum	ppm	3	5	3	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	56	80	132
Nickel	ppm	2	1	1	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1742	1566	1426	1289
Magnesium	ppm	470	524	553	687
Zinc	ppm	853	896	851	902
Phosphorus	ppm	755	767	775	736
Barium	ppm	0	0	12	0
Boron	ppm	62	69	96	140

Depot: SCHGRE
Unique No: 11008803
Signed: Wes Davis
Report Date: 04 May 2024



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GRAPHS

