



CONSTRUCTION EQUIPMENT

VOLVO A40G 752009 - DIESEL ENGINE



Sample No: VCP452544
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP452544	VCP443423	VCP401119	VCP436371
Sample Date	10 Jun 2024	19 Apr 2024	12 Mar 2024	08 Feb 2024
Machine Hours	2081	1736	1479	1257
Oil Hours	345	257	222	270
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.8	12.6
Base Number (BN)	mg KOH/g	9.9	10.0	8.6	6.8
Oxidation (PA)	%	78	76	68	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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	57	51	61	67
Sulfation (PA)	%	60	58	54	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	6
Sodium	ppm	3	3	2	0
Potassium	ppm	0	0	1	1



WEAR METALS

Iron	ppm	5	4	7	7
Copper	ppm	1	1	3	8
Lead	ppm	0	0	<1	0
Tin	ppm	0	2	<1	0
Aluminum	ppm	<1	1	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	45	84	123
Nickel	ppm	0	2	2	2
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1672	1751	1433	1273
Magnesium	ppm	486	478	577	646
Zinc	ppm	834	874	880	861
Phosphorus	ppm	765	771	752	765
Barium	ppm	0	0	0	12
Boron	ppm	51	63	92	130

Depot: SCHGRE
Unique No: 11126350
Signed: Wes Davis
Report Date: 17 Jul 2024



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GRAPHS

