



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - DIESEL ENGINE



Sample No: VCP451048
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP451048	VCP442539	VCP399417	VCP436365
Sample Date	10 Jun 2024	15 Apr 2024	12 Mar 2024	08 Feb 2024
Machine Hours	10748	10378	10136	9959
Oil Hours	370	242	177	315
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.6	12.4
Base Number (BN)	mg KOH/g	9.5	9.7	8.6	6.5
Oxidation (PA)	%	80	76	69	60

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)	%	62	53	58	69
Sulfation (PA)	%	60	58	54	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	6	5	4	6
Sodium	ppm	6	6	4	2
Potassium	ppm	<1	1	2	2



WEAR METALS

Iron	ppm	5	4	3	4
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	2	<1	0
Aluminum	ppm	2	2	4	3
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	42	45	80	118
Nickel	ppm	0	2	<1	<1
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	1711	1783	1445	1252
Magnesium	ppm	495	481	568	623
Zinc	ppm	861	885	866	836
Phosphorus	ppm	771	777	742	788
Barium	ppm	0	0	0	12
Boron	ppm	47	63	88	127

Depot: SCHGRE
Unique No: 11126348
Signed: Wes Davis
Report Date: 17 Jul 2024



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GRAPHS

