



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - DIESEL ENGINE



Sample No: VCP433558
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433558	VCP416816	VCP331577	VCP331549
Sample Date	02 Apr 2024	13 Feb 2024	11 Dec 2023	07 Nov 2023
Machine Hours	8612	8269	7971	7750
Oil Hours	343	298	221	248
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.8	12.7
Base Number (BN)	mg KOH/g	8.5	7.5	6.6	6.8
Oxidation (PA)	%	72	68	59	62

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)	%	66	64	68	70
Sulfation (PA)	%	56	54	49	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	4	5	4	4
Potassium	ppm	3	3	3	2



WEAR METALS

Iron	ppm	4	4	2	2
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	4	4	3
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	73	84	119	118
Nickel	ppm	<1	1	<1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1503	1268	1213	1323
Magnesium	ppm	546	518	639	698
Zinc	ppm	894	801	837	933
Phosphorus	ppm	794	637	766	707
Barium	ppm	0	34	0	0
Boron	ppm	83	82	124	120

Depot: SCHGRE
Unique No: 10989478
Signed: Wes Davis
Report Date: 22 Apr 2024



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GRAPHS

