



CONSTRUCTION EQUIPMENT

24349 VOLVO A40G-WT 352024 - DIESEL ENGINE



Sample No: VCP418478
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24349



SAMPLE INFORMATION

Sample Number	VCP418478	VCP399949	VCP345781	VCP309171
Sample Date	01 Nov 2023	30 Mar 2023	12 Apr 2022	19 Jul 2021
Machine Hours	5034	4285	3148	2449
Oil Hours	1000	1000	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.3	■ 13.7	11.8
Base Number (BN)	mg KOH/g	■ 9.1	■ 8.1	■ 12.0	---
Oxidation (PA)	%	77	83	80	79



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0	■ 0.1
Nitration (PA)	%	71	88	42	59
Sulfation (PA)	%	58	61	64	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.8	<1.0	<1.0
Silicon	ppm	■ 5	■ 6	■ 10	■ 4
Sodium	ppm	■ 2	■ 2	■ 1	■ 1
Potassium	ppm	■ 0	■ 1	■ <1	■ 0



WEAR METALS

Iron	ppm	■ 8	■ 13	■ 2	■ 5
Copper	ppm	■ <1	■ 2	■ <1	■ 10
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ 1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 41	■ 45	■ 43	■ 44
Nickel	ppm	■ 2	■ 0	■ <1	■ 0
Titanium	ppm	0	0	■ 0	<1
Silver	ppm	■ 0	■ 0	<1	0
Manganese	ppm	■ <1	■ <1	■ <1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1780	■ 1645	■ 1712	■ 1530
Magnesium	ppm	■ 563	■ 479	■ 547	■ 456
Zinc	ppm	■ 1224	■ 1078	■ 1106	■ 1037
Phosphorus	ppm	■ 965	■ 876	■ 950	■ 865
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 41	■ 30	■ 69	■ 92

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO3387
Unique No: 10727223
Signed: Don Baldrige
Report Date: 07 Nov 2023



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VOLVO GRAPHS

