



CONSTRUCTION EQUIPMENT

W02007688 VOLVO A35G 340132 - DIESEL ENGINE



Sample No: VCP426062
Oil Type: MOBIL 15W40
Job No: W02007688



SAMPLE INFORMATION

Sample Number	VCP426062	VCP419405	VCP396513	VCP277891
Sample Date	03 Nov 2023	15 Jun 2023	13 Mar 2023	26 Apr 2021
Machine Hours	9978	9559	9100	5941
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 12.4	█ 12.7	█ 13.1
Base Number (BN)	mg KOH/g	█ 8.2	█ 7.1	█ 10.3	---
Oxidation (PA)	%	█ 63	█ 51	█ 81	█ 59



CONTAMINATION

Soot %	%	█ 0.2	█ 0.3	█ 0.3	█ 0.3
Nitration (PA)	%	█ 63	█ 69	█ 71	█ 71
Sulfation (PA)	%	█ 62	█ 55	█ 62	█ 56
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ 0.5	█ <1.0	█ <1.0
Silicon	ppm	█ 8	█ 5	█ 17	█ 3
Sodium	ppm	▲ 314	▲ 274	▲ 87	█ 3
Potassium	ppm	▲ 40	▲ 39	▲ 35	█ 4

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



WEAR METALS

Iron	ppm	█ 7	█ 7	█ 62	█ 12
Copper	ppm	█ 1	█ <1	█ <1	█ 3
Lead	ppm	█ 0	█ 0	█ <1	█ 1
Tin	ppm	█ <1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 5	█ 1	█ 7	█ 6
Chromium	ppm	█ <1	█ 0	█ <1	█ <1
Molybdenum	ppm	█ 130	█ 42	█ 50	█ 5
Nickel	ppm	█ <1	█ 0	█ <1	█ <1
Titanium	ppm	█ <1	█ 0	█ <1	█ <1
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ 0	█ <1	█ <1
Vanadium	ppm	█ 0	█ 0	█ 0	█ 0



ADDITIVES

Calcium	ppm	█ 1630	█ 2109	█ 1714	█ 1844
Magnesium	ppm	█ 586	█ 158	█ 498	█ 543
Zinc	ppm	█ 1000	█ 1093	█ 1087	█ 1051
Phosphorus	ppm	█ 829	█ 917	█ 909	█ 929
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 229	█ 14	█ 34	█ 47

Depot: VOLVO0002
Unique No: 10727902
Signed: Jonathan Hester
Report Date: 08 Nov 2023



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GRAPHS

