



CONSTRUCTION EQUIPMENT

SW1025903 ODDONOTTO VOLVO A40 340462 - DIESEL ENGINE



Sample No: VCP405448
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1025903 ODDONOTTO



SAMPLE INFORMATION

Sample Number	VCP405448	VCP397913	VCP325257	VCP274596
Sample Date	27 Oct 2023	11 Mar 2023	03 Sep 2021	12 Oct 2020
Machine Hours	8810	8289	7733	7135
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	13.4	12.8
Base Number (BN)	mg KOH/g	8.8	8.4	---	---
Oxidation (PA)	%	83	94	94	82



CONTAMINATION

Soot %	%	0.3	0.4	0	0.1
Nitration (PA)	%	90	103	84	50
Sulfation (PA)	%	63	70	75	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	17	9	6
Sodium	ppm	▲ 143	▲ 111	31	2
Potassium	ppm	▲ 105	▲ 17	<1	9

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	13	22	11	4
Copper	ppm	1	2	<1	<1
Lead	ppm	2	2	2	<1
Tin	ppm	<1	1	<1	0
Aluminum	ppm	3	7	3	1
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	66	42	47	43
Nickel	ppm	1	2	0	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1464	1927	1668	1912
Magnesium	ppm	876	394	409	591
Zinc	ppm	1405	1183	1080	1171
Phosphorus	ppm	1107	950	901	997
Barium	ppm	0	2	0	0
Boron	ppm	19	44	37	56

Depot: VOLVO6174
Unique No: 10727211
Signed: Jonathan Hester
Report Date: 08 Nov 2023



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VOLVO GRAPHS

