



CONSTRUCTION EQUIPMENT

SPM673531-10 VOLVO A40G 352560 - DIESEL ENGINE



Sample No: VCP437748
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM673531-10



SAMPLE INFORMATION

Sample Number	VCP437748	VCP408600	VCP334571	VCP310107
Sample Date	12 Feb 2024	30 May 2023	12 Aug 2021	25 Jul 2021
Machine Hours	4683	4201	1177	1048
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.9	12.6
Base Number (BN)	mg KOH/g	9.0	6.7	---	---
Oxidation (PA)	%	76	64	67	88

Diagnosis

We advise that you check for possible coolant leak. Check for low coolant level. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.3	0.1	0.2
Nitration (PA)	%	59	72	48	67
Sulfation (PA)	%	62	60	57	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	4	6	11
Sodium	ppm	▲ 430	9	2	2
Potassium	ppm	▲ 24	0	<1	<1



WEAR METALS

Iron	ppm	13	8	5	14
Copper	ppm	12	▲ 46	6	▲ 55
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	4	3	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	92	62	35	43
Nickel	ppm	1	2	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1681	1095	1743	1622
Magnesium	ppm	605	969	420	473
Zinc	ppm	1194	1228	1095	1089
Phosphorus	ppm	988	907	920	897
Barium	ppm	0	0	0	0
Boron	ppm	24	0	51	56

Depot: VOLVO0090
Unique No: 10887546
Signed: Jonathan Hester
Report Date: 23 Feb 2024



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GRAPHS

