



CONSTRUCTION EQUIPMENT

SWO-072403 VOLVO A60H 340044 - DIESEL ENGINE



Sample No: VCP439805
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-072403



SAMPLE INFORMATION

Sample Number	VCP439805	VCP446728	VCP383715	VCP411751
Sample Date	31 May 2024	01 Feb 2024	21 Aug 2023	04 Aug 2023
Machine Hours	9784	9302	8811	8791
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	13.8	12.6
Base Number (BN)	mg KOH/g	10.2	10.2	9.5	10.4
Oxidation (PA)	%	78	74	55	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	1
Nitration (PA)	%	56	44	43	63
Sulfation (PA)	%	61	59	50	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.0	<1.0	<1.0
Silicon	ppm	13	30	10	87
Sodium	ppm	251	30	<1	0
Potassium	ppm	197	23	<1	10



WEAR METALS

Iron	ppm	8	4	8	58
Copper	ppm	<1	<1	<1	3
Lead	ppm	2	0	<1	5
Tin	ppm	<1	0	<1	2
Aluminum	ppm	3	2	5	47
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	50	43	53	39
Nickel	ppm	2	0	<1	2
Titanium	ppm	<1	0	<1	2
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1740	1528	1120	1644
Magnesium	ppm	570	493	763	465
Zinc	ppm	1190	1036	1106	1029
Phosphorus	ppm	1046	816	963	874
Barium	ppm	0	5	0	2
Boron	ppm	62	63	12	33

Diagnosis
 Check for low coolant level. We advise that you check for the source of the coolant leak. 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 oil viscosity is lower than normal. Confirm oil type.

Depot: SAIBIR
Unique No: 11071176
Signed: Sean Felton
Report Date: 12 Jun 2024

VOLVO GRAPHS

