



CONSTRUCTION EQUIPMENT

25024 VOLVO L90H 623706 - DIESEL ENGINE



Sample No: VCP440957
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25024



SAMPLE INFORMATION

Sample Number	VCP440957	VCP411040	VCP371893	VCP334744
Sample Date	20 Feb 2024	02 May 2023	12 Aug 2022	27 Sep 2021
Machine Hours	8386	7668	7067	6446
Oil Hours	0	1000	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
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OIL CONDITION

Visc @ 100°C	cSt	11.2	13.6	14.2	13.0
Base Number (BN)	mg KOH/g	9.6	9.0	12.5	---
Oxidation (PA)	%	62	78	82	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0	0.5
Nitration (PA)	%	70	65	43	75
Sulfation (PA)	%	55	56	64	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.5	<1.0	<1.0	<1.0
Silicon	ppm	8	4	8	5
Sodium	ppm	2	2	0	2
Potassium	ppm	2	<1	1	0



WEAR METALS

Iron	ppm	12	6	2	9
Copper	ppm	2	0	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	7	4	2	3
Chromium	ppm	1	0	0	<1
Molybdenum	ppm	29	41	41	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2185	1783	1591	1715
Magnesium	ppm	301	540	424	509
Zinc	ppm	1108	1274	1051	1128
Phosphorus	ppm	862	1001	897	933
Barium	ppm	34	0	0	0
Boron	ppm	43	34	69	15

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. Fuel content negligible. 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: 10898155
Signed: Jonathan Hester
Report Date: 29 Feb 2024



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VOLVO GRAPHS

