



CONSTRUCTION EQUIPMENT

619687 IHFT SENNEBOGEN 850 1150 - DIESEL ENGINE



Sample No: VCP431420
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 619687 IHFT



SAMPLE INFORMATION

Sample Number	VCP431420	VCP411130	VCP380632	VCP373942
Sample Date	28 Nov 2023	27 Apr 2023	03 Jan 2023	02 Aug 2022
Machine Hours	37869	35842	3479	2810
Oil Hours	500	500	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	13.2	12.8
Base Number (BN)	mg KOH/g	7.8	7.2	8.8	9.4
Oxidation (PA)	%	74	64	58	69

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	0.4	0.3	0.5
Nitration (PA)	%	81	68	58	70
Sulfation (PA)	%	59	52	52	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.4	<1.0	<1.0
Silicon	ppm	3	2	3	3
Sodium	ppm	0	1	<1	1
Potassium	ppm	2	0	1	0



WEAR METALS

Iron	ppm	35	23	12	15
Copper	ppm	4	1	1	2
Lead	ppm	14	4	3	4
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	1	<1	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	64	65	59	51
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1121	▲ 1165	1142	1427
Magnesium	ppm	763	▲ 1076	807	623
Zinc	ppm	1139	1384	1164	1143
Phosphorus	ppm	921	1070	963	892
Barium	ppm	3	0	0	0
Boron	ppm	7	0	9	27

Depot: VOLVO2990
Unique No: 10778840
Signed: Jonathan Hester
Report Date: 11 Dec 2023



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GRAPHS

