

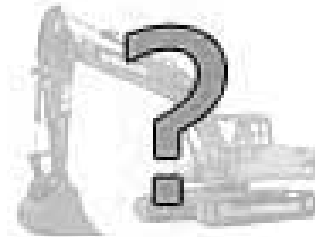


CONSTRUCTION EQUIPMENT

703480 IHFT SENNEBOGEN 830 1590 - DIESEL ENGINE



Sample No: VCP453662
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703480 IHFT



SAMPLE INFORMATION

Sample Number	VCP453662	VCP442759	VCP426604	VCP380839
Sample Date	23 May 2024	21 Nov 2023	28 Mar 2023	04 Jan 2023
Machine Hours	15473	14126	12416	11870
Oil Hours	500	900	500	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	15.6	15.1	14.0	14.9
Base Number (BN)	mg KOH/g	6.2	7.2	8.6	8.9
Oxidation (PA)	%	83	68	60	65

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	3.3	2.3	1.3	1.8
Nitration (PA)	%	111	92	75	79
Sulfation (PA)	%	76	65	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	3
Sodium	ppm	2	2	1	<1
Potassium	ppm	3	1	<1	1

Diagnosis

The oil change at the time of sampling has been noted. All component wear rates are normal. Light concentration of carbon/soot present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	31	23	19	22
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	3	2	2
Chromium	ppm	2	1	1	1
Molybdenum	ppm	85	76	74	66
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1795	1727	1760	1274
Magnesium	ppm	622	476	771	832
Zinc	ppm	1370	1266	1414	1254
Phosphorus	ppm	1078	1018	1139	1025
Barium	ppm	1	0	0	0
Boron	ppm	26	37	22	9

Depot: VOLVO2990
Unique No: 11048565
Signed: Wes Davis
Report Date: 29 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

