



CONSTRUCTION EQUIPMENT

646482 RUBY SENNEBOGEN 825E 825.0.3093 - DIESEL ENGINE



Sample No: VCP452371
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 646482 RUBY



SAMPLE INFORMATION

Sample Number	VCP452371	VCP431392	VCP381598	VCP371135
Sample Date	05 Jan 2024	26 Sep 2023	13 May 2023	18 Nov 2022
Machine Hours	8118	7611	6746	6220
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.7	13.1	14.1
Base Number (BN)	mg KOH/g	7.0	5.9	7.5	11.3
Oxidation (PA)	%	77	90	82	65

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	88	89	83	44
Sulfation (PA)	%	58	66	60	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	3
Sodium	ppm	2	2	3	<1
Potassium	ppm	<1	6	2	2

WEAR METALS

Iron	ppm	14	23	16	3
Copper	ppm	<1	2	4	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	1	4	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	44	56	56
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1393	1621	1722	1191
Magnesium	ppm	751	694	668	812
Zinc	ppm	1216	1352	1274	1159
Phosphorus	ppm	980	1046	1034	971
Barium	ppm	0	0	0	2
Boron	ppm	15	33	47	27

Depot: VOLVO2990
Unique No: 10845939
Signed: Wes Davis
Report Date: 24 Jan 2024



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GRAPHS

