



CONSTRUCTION EQUIPMENT

715636 SENNEBOGEN 825 3313 - DIESEL ENGINE



Sample No: VCP449899
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715636



SAMPLE INFORMATION

Sample Number	VCP449899	VCP434049	VCP416320	VCP403678
Sample Date	22 May 2024	13 Dec 2023	12 Jul 2023	11 Jan 2023
Machine Hours	4167	3701	3332	2845
Oil Hours	500	400	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.5	13.1	12.6
Base Number (BN)	mg KOH/g	8.7	7.3	8.5	8.7
Oxidation (PA)	%	61	58	61	64

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)	%	61	53	63	63
Sulfation (PA)	%	53	52	53	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	3	4
Sodium	ppm	1	1	2	0
Potassium	ppm	2	2	0	1



WEAR METALS

Iron	ppm	12	8	13	15
Copper	ppm	1	<1	1	2
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	59	62	63
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1153	993	1140	1136
Magnesium	ppm	997	942	1067	938
Zinc	ppm	1276	1240	1309	1240
Phosphorus	ppm	1029	1029	1061	1030
Barium	ppm	1	0	0	1
Boron	ppm	2	<1	0	0

Depot: VOLVO2990
Unique No: 11048566
Signed: Sean Felton
Report Date: 30 May 2024



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GRAPHS

