



CONSTRUCTION EQUIPMENT

688924 GERDAU SENNEBOGEN 850 3143 - DIESEL ENGINE



Sample No: VCP438825
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688924 GERDAU



SAMPLE INFORMATION

Sample Number	VCP438825	VCP440683	VCP439602	VCP431429
Sample Date	27 Mar 2024	21 Feb 2024	17 Jan 2024	27 Nov 2023
Machine Hours	5825	5238	4697	3954
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	11.6	12.9
Base Number (BN)	mg KOH/g	9.0	9.0	8.0	6.1
Oxidation (PA)	%	75	76	86	92

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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	76	76	86	87
Sulfation (PA)	%	57	57	59	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	3.7	6.9	<1.0
Silicon	ppm	2	3	2	2
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	2	<1	5

WEAR METALS

Iron	ppm	9	11	14	22
Copper	ppm	<1	1	<1	1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	2	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	60	55	67
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	0
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1043	1032	1078	1092
Magnesium	ppm	943	931	913	965
Zinc	ppm	1126	1220	1145	1277
Phosphorus	ppm	991	952	924	1040
Barium	ppm	0	1	0	3
Boron	ppm	0	3	1	0

Depot: VOLVO2990
Unique No: 10968713
Signed: Angela Borella
Report Date: 12 Apr 2024



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GRAPHS

