



CONSTRUCTION EQUIPMENT

729780 GERDAU SENNEBOGEN 850 3143 - DIESEL ENGINE



Sample No: VCP452756
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729780 GERDAU



SAMPLE INFORMATION

Sample Number	VCP452756	VCP438825	VCP440683	VCP439602
Sample Date	19 Jun 2024	27 Mar 2024	21 Feb 2024	17 Jan 2024
Machine Hours	7018	5825	5238	4697
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T:
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	13.2	12.5	12.8	▲ 11.6
Base Number (BN)	mg KOH/g	9.1	9.0	9.0	8.0
Oxidation (PA)	%	69	75	76	86

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	70	76	76	86
Sulfation (PA)	%	57	57	57	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	▲ 3.7	▲ 6.9
Silicon	ppm	3	2	3	2
Sodium	ppm	5	2	2	2
Potassium	ppm	2	<1	2	<1



WEAR METALS

Iron	ppm	11	9	11	14
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	3	1	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	49	60	55
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1111	1043	● 1032	1078
Magnesium	ppm	1049	943	● 931	913
Zinc	ppm	1370	1126	1220	1145
Phosphorus	ppm	1055	991	952	924
Barium	ppm	0	0	1	0
Boron	ppm	0	0	3	1

Depot: VOLVO2990
Unique No: 11100186
Signed: Don Baldrige
Report Date: 28 Jun 2024



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VOLVO GRAPHS

