



CONSTRUCTION EQUIPMENT

621160 GERDAU SENNEBOGEN 850 3143 - DIESEL ENGINE



Sample No: VCP431429
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621160 GERDAU



SAMPLE INFORMATION

Sample Number	VCP431429	VCP415307	VCP414131	VCP411156
Sample Date	27 Nov 2023	23 Aug 2023	28 Jun 2023	12 Apr 2023
Machine Hours	3954	3022	2398	1263
Oil Hours	500	800	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	12.9	13.9	13.5	13.5
Base Number (BN)	mg KOH/g	6.1	7.8	9.3	9.4
Oxidation (PA)	%	92	73	82	89

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	0.1	0.1	0.1
Nitration (PA)	%	87	78	66	68
Sulfation (PA)	%	65	58	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	3	3
Sodium	ppm	2	5	3	3
Potassium	ppm	5	4	2	0



WEAR METALS

Iron	ppm	22	10	8	14
Copper	ppm	1	2	<1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	2	<1	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	67	67	61	51
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1092	1383	1412	1623
Magnesium	ppm	965	902	972	749
Zinc	ppm	1277	1381	1409	1327
Phosphorus	ppm	1040	1086	1119	1048
Barium	ppm	3	0	0	0
Boron	ppm	0	8	20	49

Depot: VOLVO2990
Unique No: 10778843
Signed: Don Baldrige
Report Date: 11 Dec 2023



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GRAPHS

