



# CONSTRUCTION EQUIPMENT

675477 GERDAU SENNEBOGEN 830ME 830.0.2567 - DIESEL ENGINE



**Sample No:** VCP445307  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 675477 GERDAU



## SAMPLE INFORMATION

Sample Number	<b>VCP445307</b>	VCP433740	VCP418197	VCP401146
Sample Date	<b>07 Mar 2024</b>	04 Dec 2023	25 Aug 2023	14 Jul 2023
Machine Hours	<b>10806</b>	10102	9390	9054
Oil Hours	<b>500</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.1	12.9	14.6
Base Number (BN)	mg KOH/g	<b>6.7</b>	6.7	9.8	8.4
Oxidation (PA)	%	<b>97</b>	91	92	63

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.3	0.2	0.1
Nitration (PA)	%	<b>96</b>	90	76	54
Sulfation (PA)	%	<b>66</b>	64	65	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	6	4
Sodium	ppm	<b>2</b>	0	4	0
Potassium	ppm	<b>2</b>	2	3	2

## 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.

## WEAR METALS

Iron	ppm	<b>29</b>	28	19	10
Copper	ppm	<b>3</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>7</b>	4	6	1
Chromium	ppm	<b>2</b>	<1	1	<1
Molybdenum	ppm	<b>65</b>	66	47	61
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1219</b>	1139	1826	1141
Magnesium	ppm	<b>1028</b>	932	611	808
Zinc	ppm	<b>1348</b>	1262	1281	1152
Phosphorus	ppm	<b>1108</b>	1025	1020	984
Barium	ppm	<b>0</b>	3	0	0
Boron	ppm	<b>1</b>	1	34	<1

**Depot:** VOLVO2990  
**Unique No:** 10937569  
**Signed:** Don Baldrige  
**Report Date:** 22 Mar 2024



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## GRAPHS

