



# CONSTRUCTION EQUIPMENT

660061 GLE SENNEBOGEN 830 830.0.2758 - DIESEL ENGINE



**Sample No:** VCP445860  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 660061 GLE



## SAMPLE INFORMATION

Sample Number	<b>VCP445860</b>	VCP410424	VCP379811	VCP374488
Sample Date	<b>19 Feb 2024</b>	03 May 2023	08 Feb 2023	12 Oct 2022
Machine Hours	<b>8236</b>	6586	6106	5522
Oil Hours	<b>500</b>	0	0	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>13.1</b>	13.6	13.4	13.1
Base Number (BN)	mg KOH/g	<b>7.9</b>	8.8	8.7	10.4
Oxidation (PA)	%	<b>72</b>	62	60	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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>76</b>	60	60	56
Sulfation (PA)	%	<b>58</b>	55	53	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	3	2	3
Sodium	ppm	<b>2</b>	<1	1	<1
Potassium	ppm	<b>0</b>	<1	0	0

## WEAR METALS

Iron	ppm	<b>16</b>	10	9	6
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	3	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>59</b>	57	61	58
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1093</b>	1048	1136	1080
Magnesium	ppm	<b>926</b>	980	886	960
Zinc	ppm	<b>1117</b>	1264	1228	1220
Phosphorus	ppm	<b>966</b>	979	979	1025
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	6	1

**Depot:** VOLVO2990  
**Unique No:** 10896438  
**Signed:** Don Baldrige  
**Report Date:** 26 Feb 2024

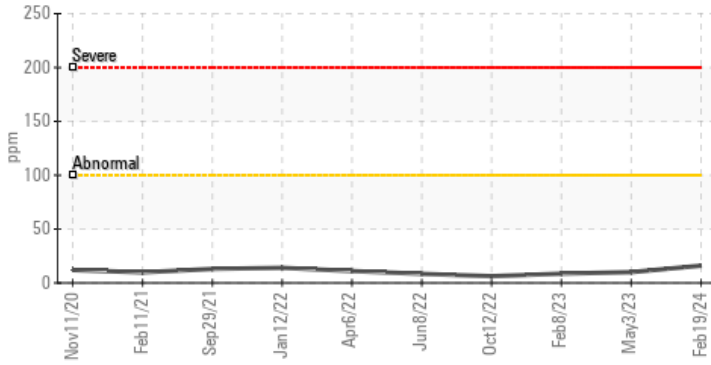


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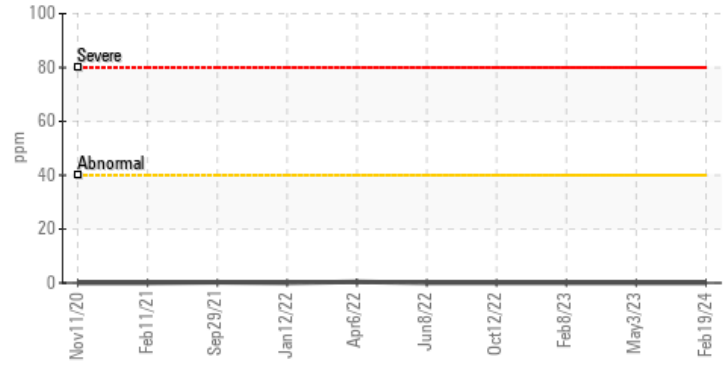


## GRAPHS

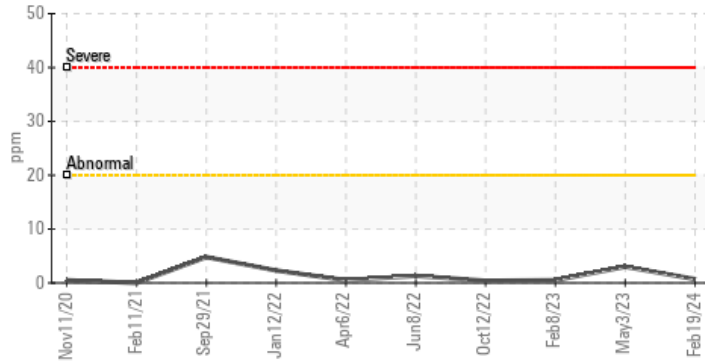
### Iron (ppm)



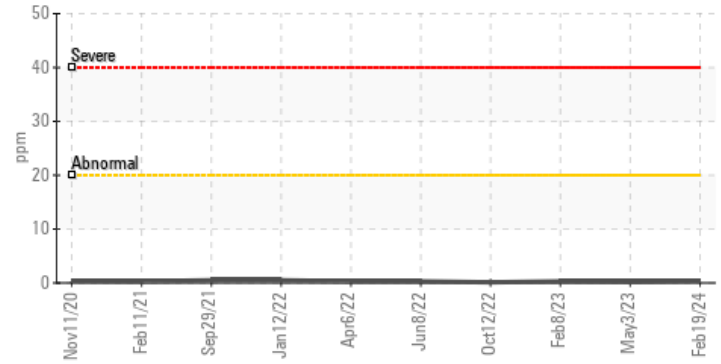
### Lead (ppm)



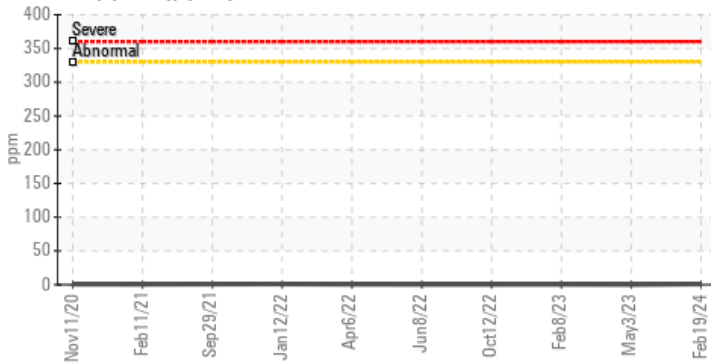
### Aluminum (ppm)



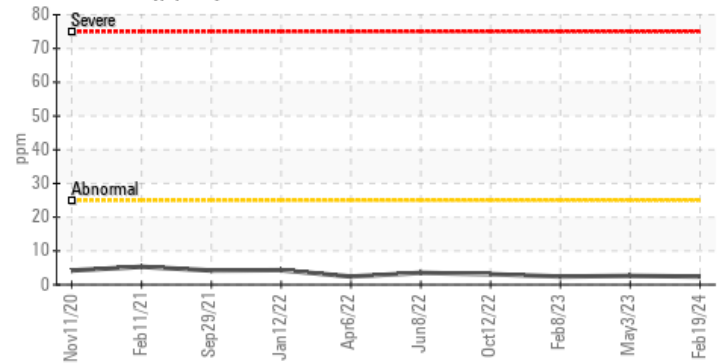
### Chromium (ppm)



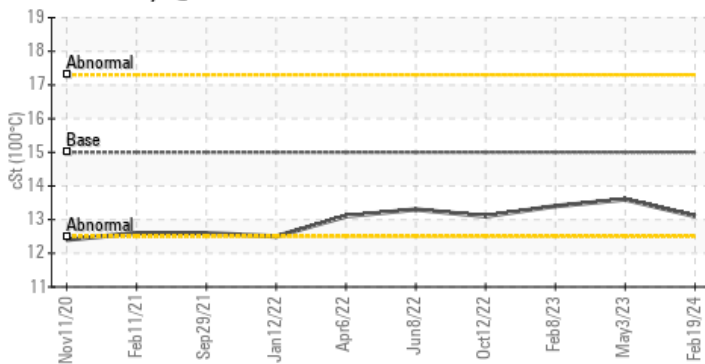
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

