



# CONSTRUCTION EQUIPMENT

GAETE SENNEBOGEN 825 825.0.3888 - DIESEL ENGINE



**Sample No:** VCP416495  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** GAETE



## SAMPLE INFORMATION

Sample Number	VCP416495	VCP424497	---	---
Sample Date	11 Dec 2023	22 Jul 2023	---	---
Machine Hours	958	483	---	---
Oil Hours	500	483	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

### GREEN MACHINE SERVICES LLC

13 SPYROS DRIVE  
 SOUTH AMBOY, NJ  
 US 08879

Contact: JOE GRZANKOWSKI  
 JOE@GREENMSRV.COM

T: (732)673-5920

F:



## OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 10.8	---	---
Base Number (BN)	mg KOH/g	■ 9.4	■ 7.2	---	---
Oxidation (PA)	%	80	60	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	59	69	---	---
Sulfation (PA)	%	61	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 2.0	---	---
Silicon	ppm	■ 9	■ 28	---	---
Sodium	ppm	■ 0	■ 5	---	---
Potassium	ppm	■ 2	■ 3	---	---



## WEAR METALS

Iron	ppm	■ 13	■ 19	---	---
Copper	ppm	■ 3	■ 15	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 41	■ 79	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 4	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	■ 1645	■ 2133	---	---
Magnesium	ppm	■ 514	■ 197	---	---
Zinc	ppm	■ 1164	■ 1275	---	---
Phosphorus	ppm	■ 919	■ 1009	---	---
Barium	ppm	■ 3	■ 0	---	---
Boron	ppm	■ 73	106	---	---

**Depot:** GRESOUNJ

**Unique No:** 10835343

**Signed:** Don Baldrige

**Report Date:** 20 Jan 2024



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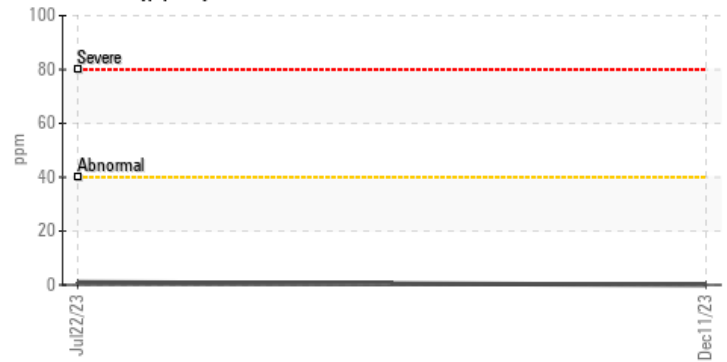


## GRAPHS

### Iron (ppm)



### Lead (ppm)



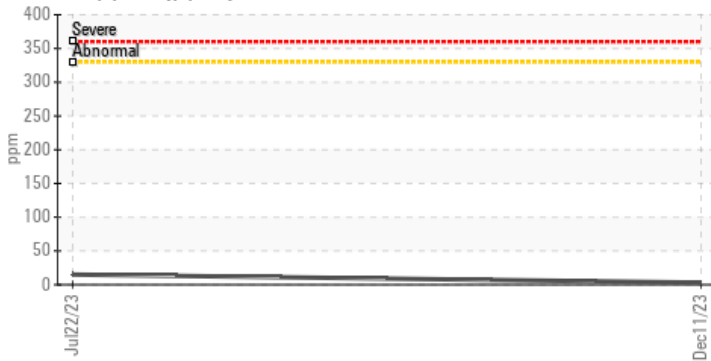
### Aluminum (ppm)



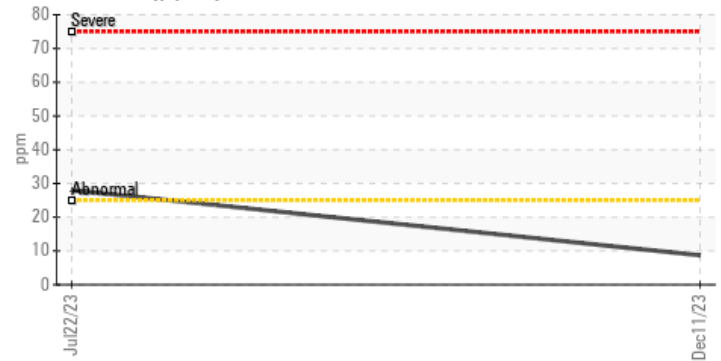
### Chromium (ppm)



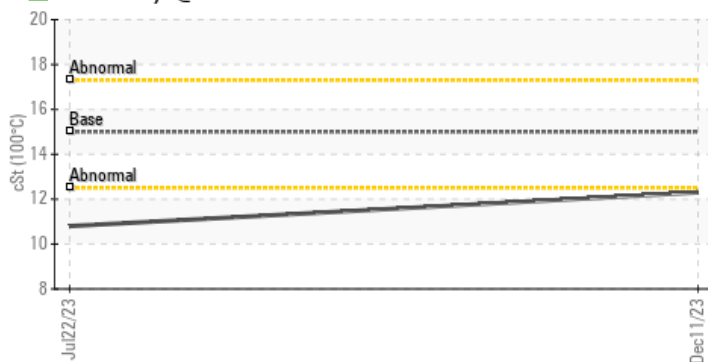
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

