



# CONSTRUCTION EQUIPMENT

SPM715231 SENNEBOGEN 835ME 835.0.3282 - DIESEL ENGINE



**Sample No:** VCP446417  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM715231



## SAMPLE INFORMATION

Sample Number	VCP446417	VCP436914	---	---
Sample Date	25 Jun 2024	01 Feb 2024	---	---
Machine Hours	1200	515	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

### BELSON STEEL

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## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	▲ 8.9	---	---
Base Number (BN)	mg KOH/g	■ 7.7	■ 5.6	---	---
Oxidation (PA)	%	78	77	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	91	88	---	---
Sulfation (PA)	%	58	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 4.4	▲ 13.8	---	---
Silicon	ppm	■ 4	■ 14	---	---
Sodium	ppm	■ 4	■ 4	---	---
Potassium	ppm	■ 37	■ 37	---	---



## WEAR METALS

Iron	ppm	■ 21	■ 22	---	---
Copper	ppm	■ 3	■ 15	---	---
Lead	ppm	■ <1	■ 0	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 13	■ 11	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 62	■ 72	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 1	■ 4	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	■ 1156	■ 1773	---	---
Magnesium	ppm	■ 873	■ 91	---	---
Zinc	ppm	■ 1114	■ 967	---	---
Phosphorus	ppm	■ 977	■ 823	---	---
Barium	ppm	■ <1	■ 4	---	---
Boron	ppm	■ 3	■ 47	---	---

**Depot:** BELBOU  
**Unique No:** 11128801  
**Signed:** Wes Davis  
**Report Date:** 19 Jul 2024

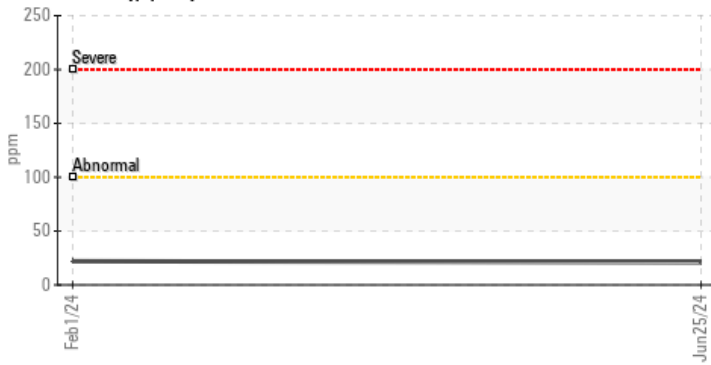


# CONSTRUCTION EQUIPMENT



## GRAPHS

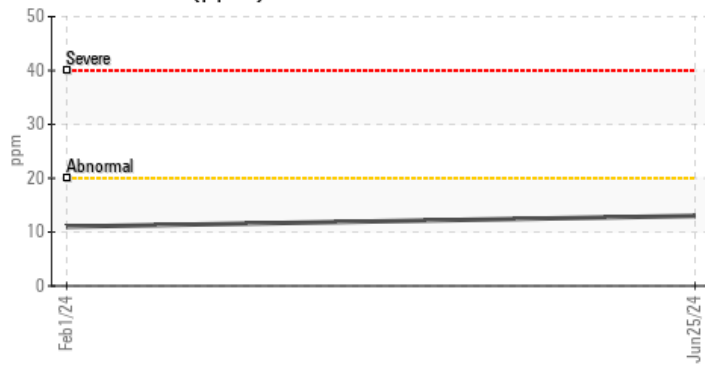
### Iron (ppm)



### Lead (ppm)



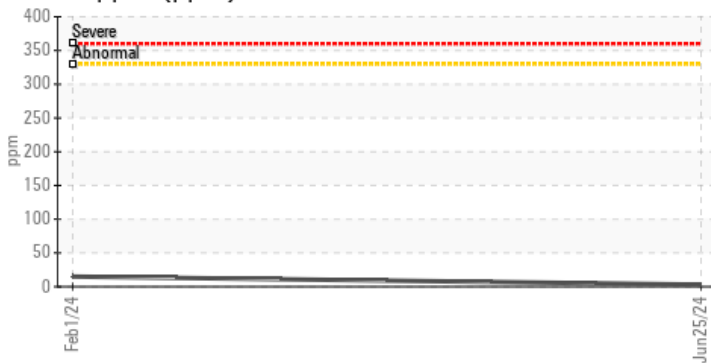
### Aluminum (ppm)



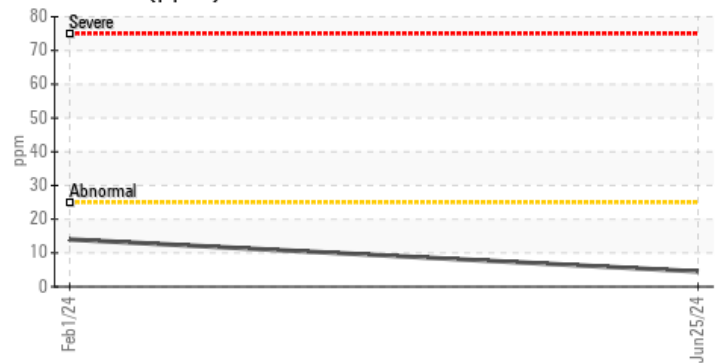
### Chromium (ppm)



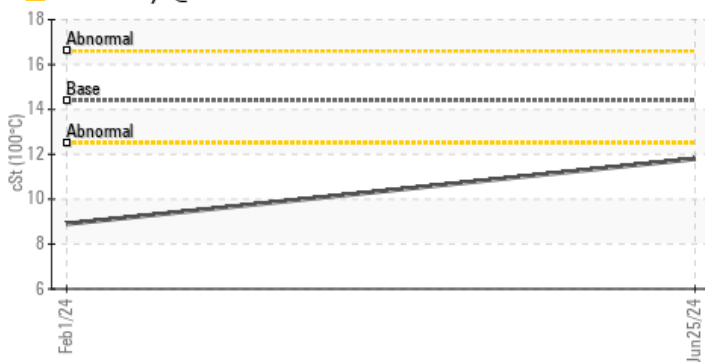
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

