



CONSTRUCTION EQUIPMENT

SWA469599 SENNEBOGEN 835ME 835.0.3282 - DIESEL ENGINE



Sample No: VCP436914
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA469599



SAMPLE INFORMATION

Sample Number	VCP436914	---	---	---
Sample Date	01 Feb 2024	---	---	---
Machine Hours	515	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

BELSON STEEL

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F:



OIL CONDITION

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

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. 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. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. 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 oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	1773	---	---	---
Magnesium	ppm	91	---	---	---
Zinc	ppm	967	---	---	---
Phosphorus	ppm	823	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	47	---	---	---

Depot: BELBOU
Unique No: 10873245
Signed: Wes Davis
Report Date: 14 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

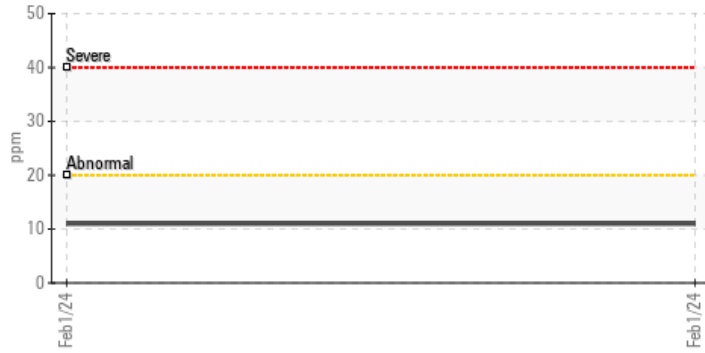
Iron (ppm)



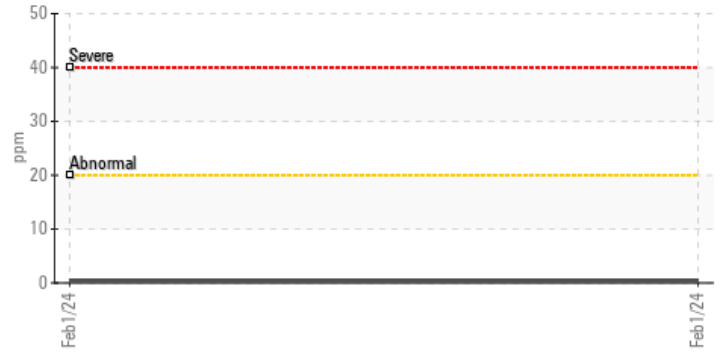
Lead (ppm)



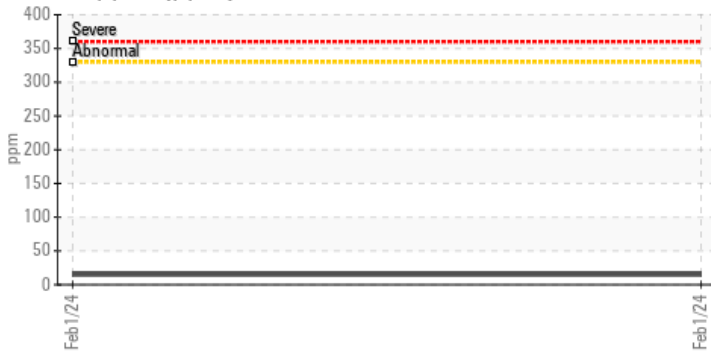
Aluminum (ppm)



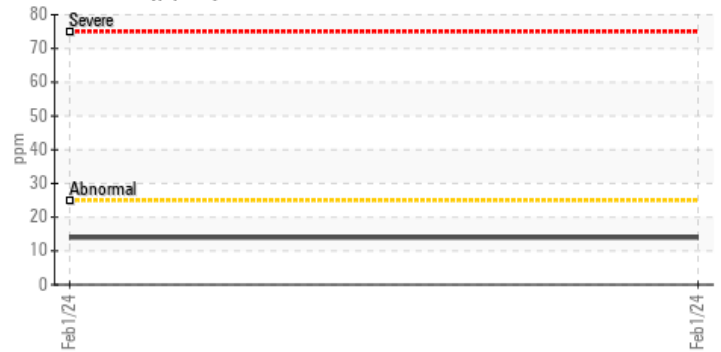
Chromium (ppm)



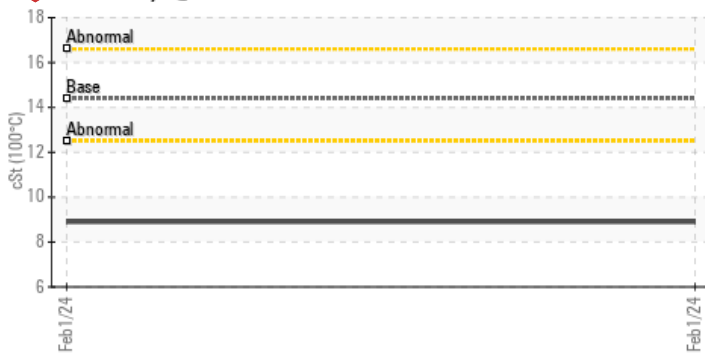
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

