WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL

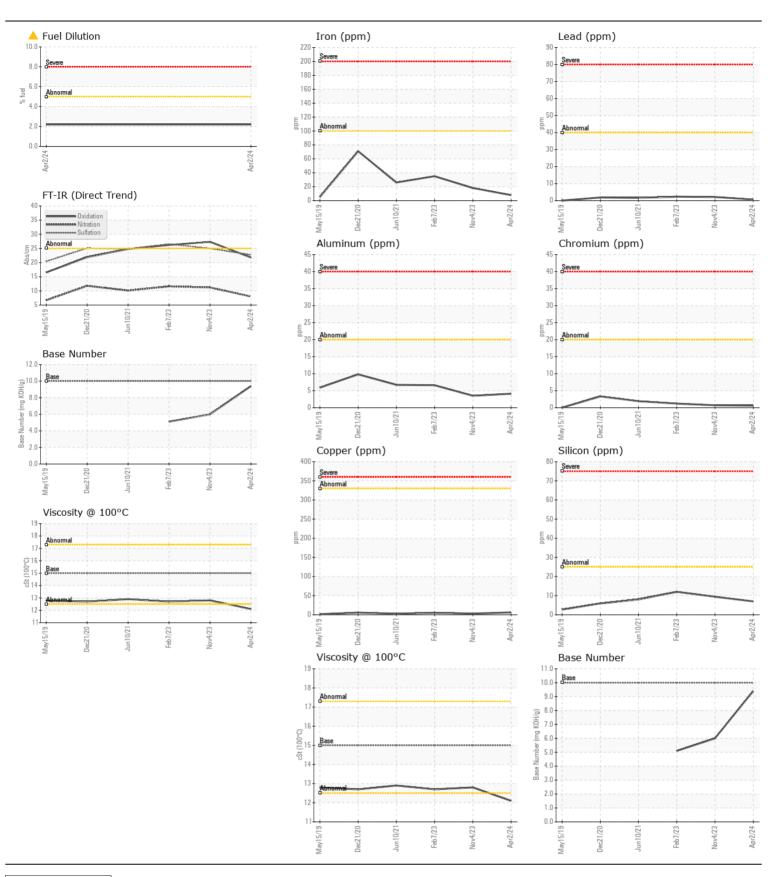
Area

[1766]

## SENNEBOGEN 835E 835.0.2394

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP438329	VCP424147	VCP39787
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		02 Apr 2024	04 Nov 2023	07 Feb 202
	Machine Age	hrs	Client Info		11497	11082	9773
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Chang
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				MARGINAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	8	18	35
V = 7 (1 t	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	2
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	7
	Lead	ppm	ASTM D5185m		<1	2	2
	Copper	ppm	ASTM D5185m	>330	6	3	5
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	7	9	12
CONTAININATION	Potassium	ppm	ASTM D5185m		8	2	9
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	ppm %	ASTM D3103111		<u> </u>	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	11.2	11.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.0	26.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1	3	3
LOID CONDITION	Boron	ppm	ASTM D5185m	25	43	67	67
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	1	0	<1
	Molybdenum	ppm	ASTM D5185m		45	53	60
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		477	487	475
	Calcium	ppm	ASTM D5185m	2057	1662	1702	1620
	Phosphorus	ppm	ASTM D5185m		844	812	893
	Zinc	ppm	ASTM D5185m		1062	1141	1142
	Sulfur	ppm	ASTM D5185m		2658	2720	2936
	Oxidation	Abs/.1mm	*ASTM D7414		21.8	27.3	26.2
	Base Number (BN)				9.4	6.0	5.1
	Dase Mullipel (DIM)	mg romg	/ TO THE DEGOOD		JT		





Certificate L2367

Laboratory Sample No.

: VCP438329 Lab Number : 06149760

Unique Number: 10979838

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** 

Diagnosed

: 19 Apr 2024

: 19 Apr 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

SACRAMENTO, CA US 95814 Contact: EVERT

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (916)769-7864 F:

SIMS METAL

130 NORTH 12TH ST

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)