



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**SENNEBOGEN 830 2811**  
Component  
**Front Gearbox**  
Fluid  
**IRVING 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0896383</b>	WC0896438	WC0849232
Sample Date		Client Info		<b>30 May 2024</b>	08 Mar 2024	21 Dec 2023
Machine Age	hrs	Client Info		<b>21000</b>	20000	19000
Oil Age	hrs	Client Info		<b>1000</b>	1000	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>11</b>	11	10
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3	3
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>200	<b>3</b>	2	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

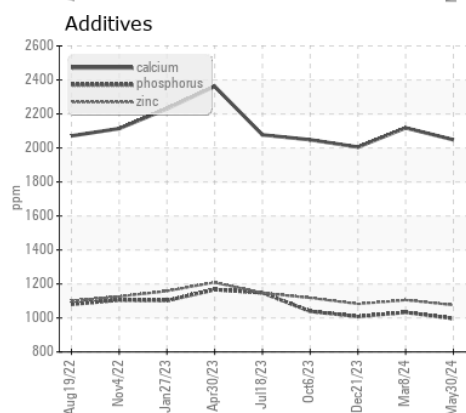
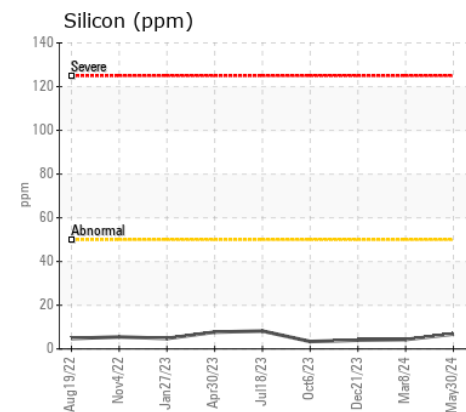
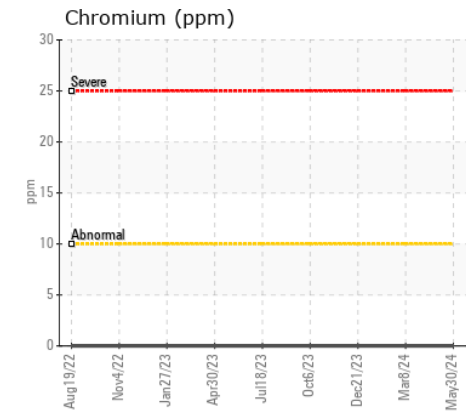
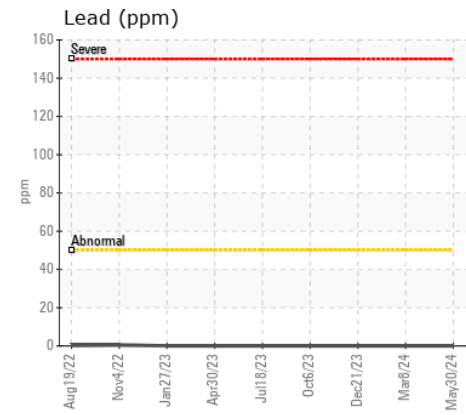
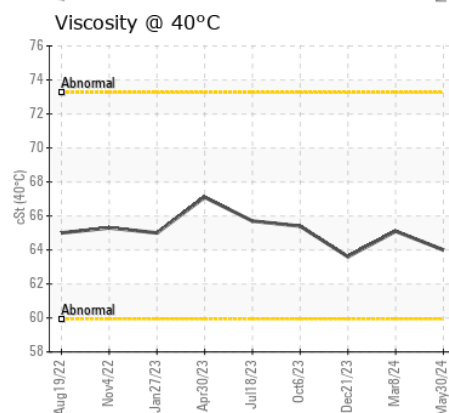
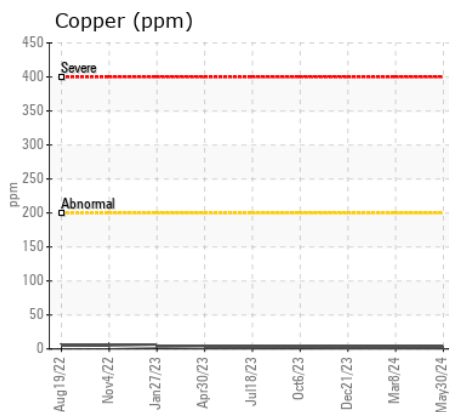
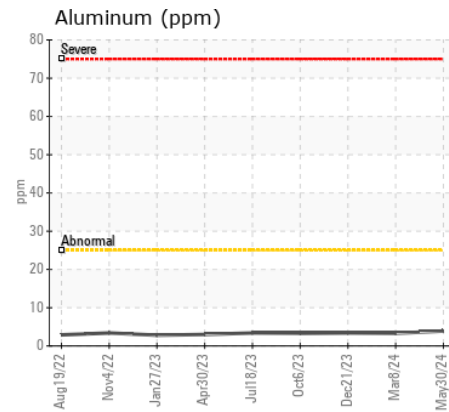
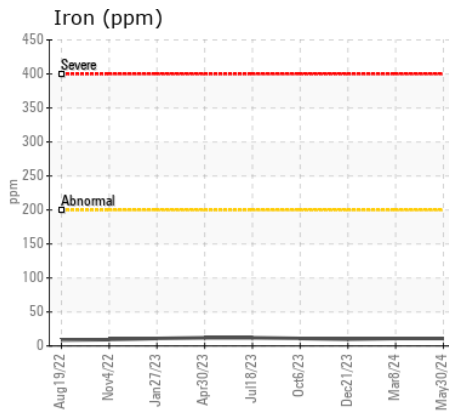
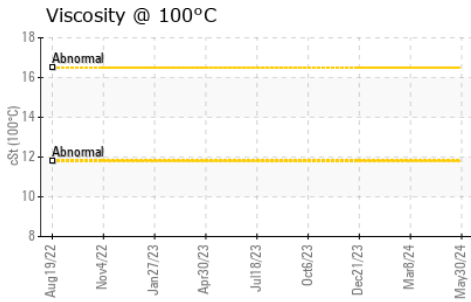
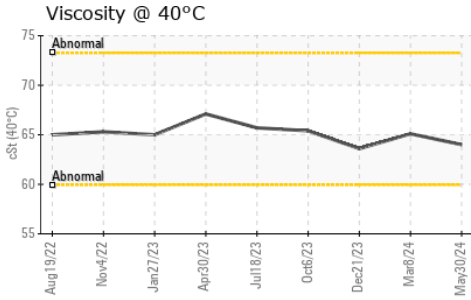
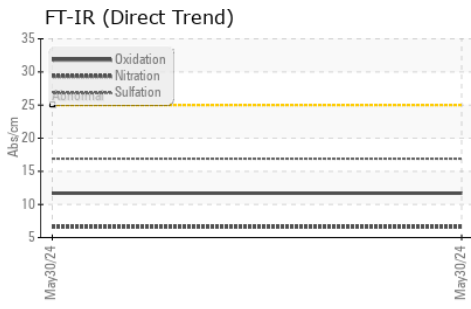
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	<b>7</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>6.6</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*		<b>16.9</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>101	<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)		<b>75</b>	76	73
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>3</b>	4	4
Manganese	ppm	ASTM D5185(m)		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>26</b>	31	30
Calcium	ppm	ASTM D5185(m)		<b>2048</b>	2118	2005
Phosphorus	ppm	ASTM D5185(m)		<b>996</b>	1033	1008
Zinc	ppm	ASTM D5185(m)		<b>1076</b>	1105	1082
Sulfur	ppm	ASTM D5185(m)		<b>3289</b>	3880	3654
Oxidation	Abs/.1mm	ASTM D7414*		<b>11.7</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>64.0</b>	65.1	63.6
Visc @ 100°C	cSt	ASTM D7279(m)		<b>9.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>128</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0896383 **Received** : 19 Jun 2024  
**Lab Number** : 02642831 **Tested** : 19 Jun 2024  
**Unique Number** : 5800370 **Diagnosed** : 19 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FT-IR, KV100, VI )

**INTERFOR CORP**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.