

#### Machine Id SENNEBOGEN 825 C183344 (S/N 825.0.1186) Component Hydraulic System

{not provided} (--- QTS)

#### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

The chromium level is abnormal. All other component wear rates are normal.

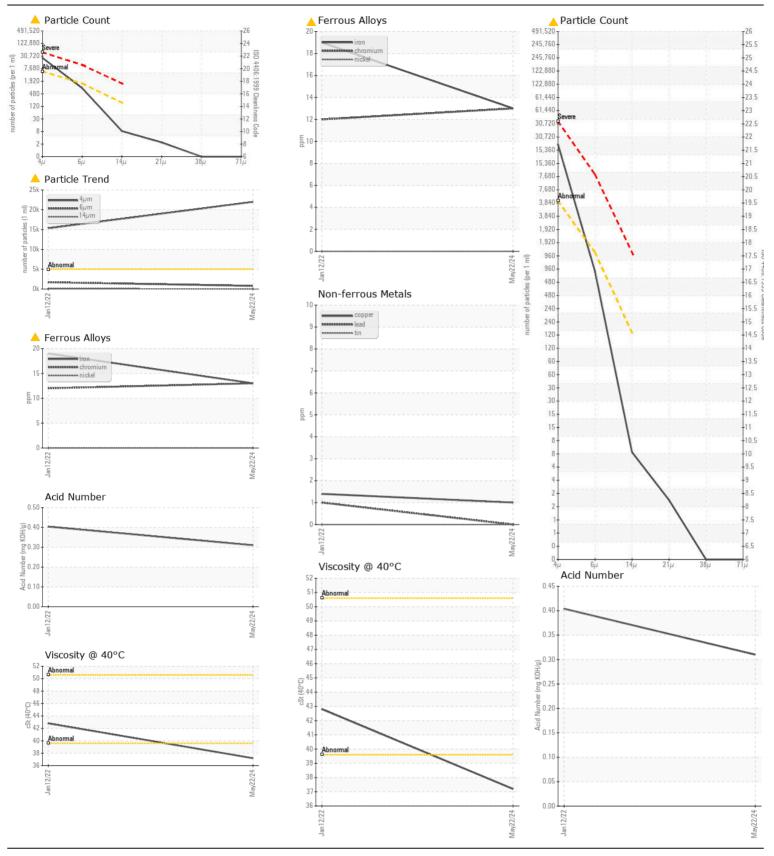
## CONTAMINATION

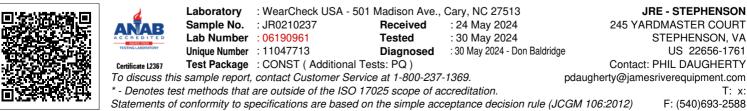
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

# FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210237	JR0112225	
Sample Date		Client Info		22 May 2024	12 Jan 2022	
Machine Age	hrs	Client Info		16776	16076	
Oil Age	hrs	Client Info		16076	0	
Filter Age	hrs	Client Info		16076	0	
Oil Changed		Client Info		N/A	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184		19	21	
Iron	ppm	ASTM D5185m	>20	13	19	
Chromium	ppm	ASTM D5185m	>10	🔺 13	🔺 12	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	0	1	
Copper	ppm	ASTM D5185m	>75	1	1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	2	2	
Potassium	ppm	ASTM D5185m		<1	<1	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647		A 21982	▲ 15335	
Particles >6µm		ASTM D7647	>1300 >160	792 7	1719 128	
Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647	>100	2	27	
Particles >38µm		ASTM D7647 ASTM D7647		0	0	
Particles >30µm		ASTM D7647 ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)		A 22/17/10	↓ 21/18/14	
Silt	scalar	*Visual	>19/1//14	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual	>0.1	NEG	NEG	
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Sodium	ppm	ASTM D5185m		4	6	
Boron	ppm	ASTM D5185m		0	5	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		37	57	
Calcium	ppm	ASTM D5185m		100	130	
Phosphorus	ppm	ASTM D5185m		330	312	
Zinc	ppm	ASTM D5185m		396	374	
Sulfur	ppm	ASTM D5185m		2553	3007	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.404	
Visc @ 40°C	cSt	ASTM D445		37.2	42.8	
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Submitted By: COTY MAGAHA Page 2 of 2