LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SENNEBOGEN 830E MS16
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

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

CONTAMINATION

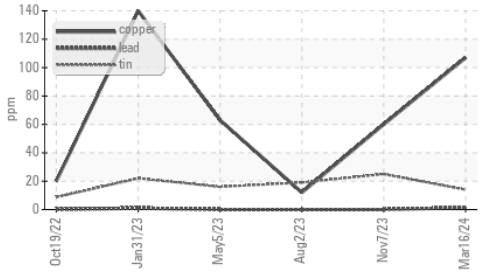
There is no indication of any contamination in the oil.

FLUID CONDITION

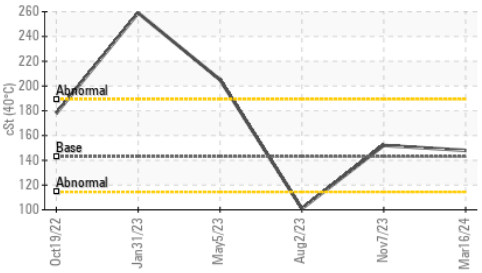
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0244831	LHMC79967	LHMC122825
Sample Date		Client Info		16 Mar 2024	07 Nov 2023	02 Aug 2023
Machine Age	hrs	Client Info		7941	7588	7131
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>400	332	▲ 778	▲ 674
Chromium	ppm	ASTM D5185m	>10	3	5	4
Nickel	ppm	ASTM D5185m	>10	1	2	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>50	1	0	0
Copper	ppm	ASTM D5185m	>200	107	60	12
Tin	ppm	ASTM D5185m	>10	▲ 14	▲ 25	▲ 19
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	5	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water		WC Method	>0.2	NEG	NEG	NEG
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG
Sodium	ppm	ASTM D5185m	>170	0	2	<1
Boron	ppm	ASTM D5185m	400	<1	12	2
Barium	ppm	ASTM D5185m	200	<1	0	0
Molybdenum	ppm	ASTM D5185m	12	1	0	0
Manganese	ppm	ASTM D5185m		4	8	8
Magnesium	ppm	ASTM D5185m	12	3	3	2
Calcium	ppm	ASTM D5185m	150	18	186	4
Phosphorus	ppm	ASTM D5185m	1650	484	451	272
Zinc	ppm	ASTM D5185m	125	24	134	44
Sulfur	ppm	ASTM D5185m	22500	34960	5690	8445
Visc @ 40°C	cSt	ASTM D445	143	148	152	101

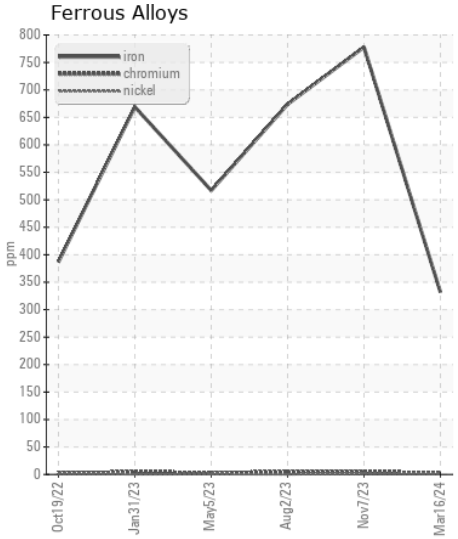
Non-ferrous Metals



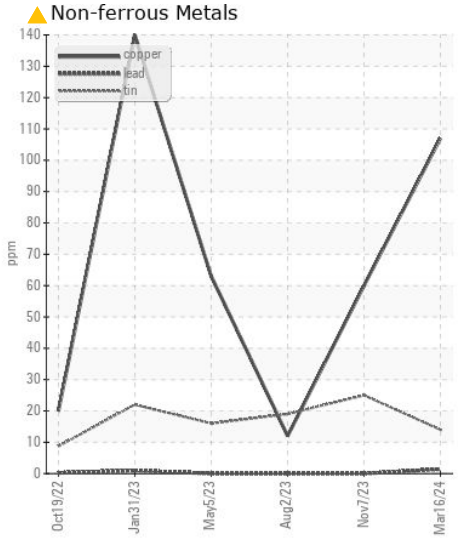
Viscosity @ 40°C



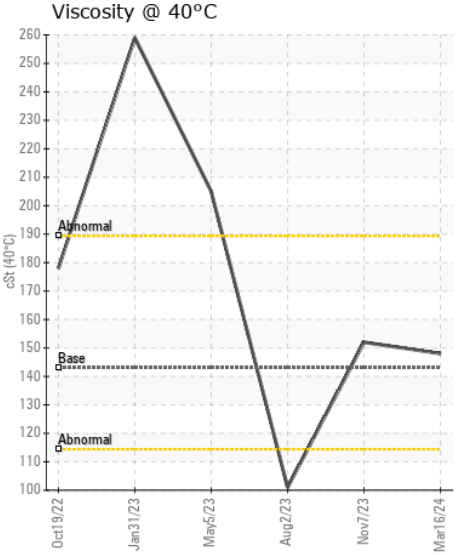
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LH0244831	**Received**	: 24 Apr 2024
Lab Number	: 06159926	**Tested**	: 25 Apr 2024
Unique Number	: 10995349	**Diagnosed**	: 26 Apr 2024 - Sean Felton
Test Package	: CONST		

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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