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LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
(354956)
Machine Id
LIEBHERR A922 128674-1509
Component
Swing Drive
Fluid
GEAR OIL SAE 75W90 (8 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

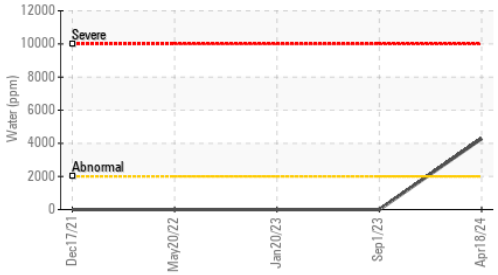
There is a moderate concentration of water present in the oil.

FLUID CONDITION

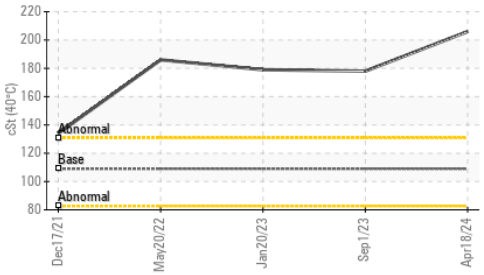
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH**	LH0274092	LH0238914
Sample Date		Client Info		**18 Apr 2024**	01 Sep 2023	20 Jan 2023
Machine Age	hrs	Client Info		**3800**	2993	2095
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**None**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>350	**300**	101	39
Chromium	ppm	ASTM D5185(m)	>15	**2**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>10	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>300	**9**	14	10
Tin	ppm	ASTM D5185(m)	>15	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	**1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	<1
Water	%	ASTM D6304*	>0.2	▲ **0.428**	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ **4287**	---	---
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	▲ **.2%**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**1**	4	2
Boron	ppm	ASTM D5185(m)	400	**2**	7	6
Barium	ppm	ASTM D5185(m)	200	**<1**	<1	1
Molybdenum	ppm	ASTM D5185(m)	12	**0**	0	0
Manganese	ppm	ASTM D5185(m)		**3**	1	<1
Magnesium	ppm	ASTM D5185(m)	12	**1**	1	<1
Calcium	ppm	ASTM D5185(m)	150	**14**	9	18
Phosphorus	ppm	ASTM D5185(m)	1650	**2195**	2334	2453
Zinc	ppm	ASTM D5185(m)	125	**23**	17	18
Sulfur	ppm	ASTM D5185(m)	22500	**24172**	27476	32709
Visc @ 40°C	cSt	ASTM D7279(m)	109	**206**	178	179

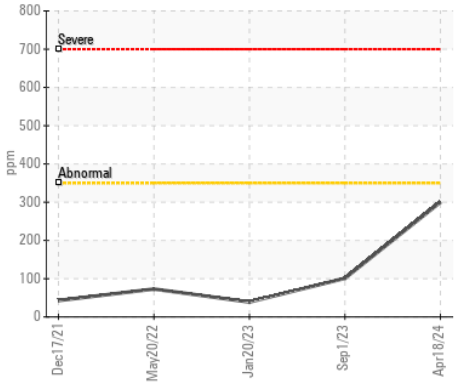
Water (KF)



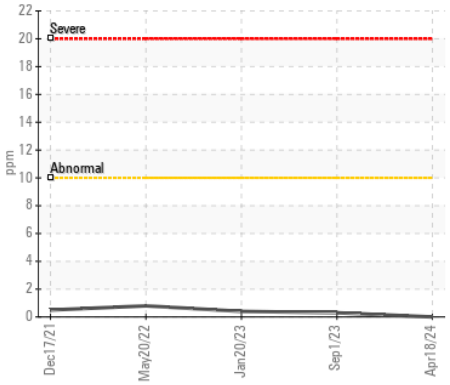
Viscosity @ 40°C



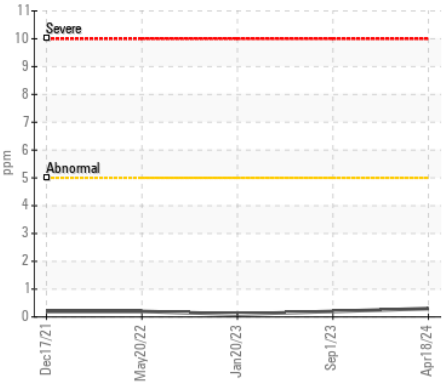
Iron (ppm)



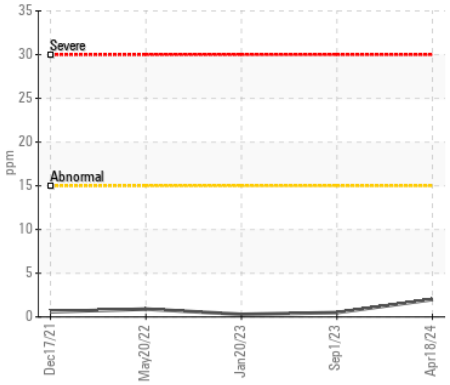
Lead (ppm)



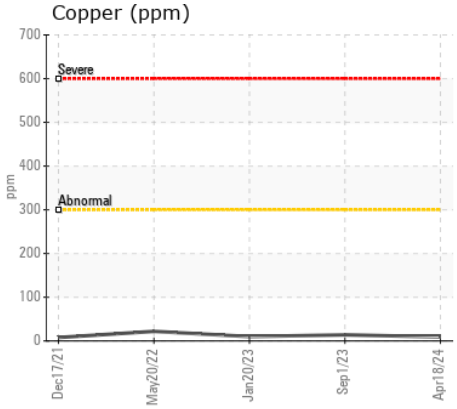
Aluminum (ppm)



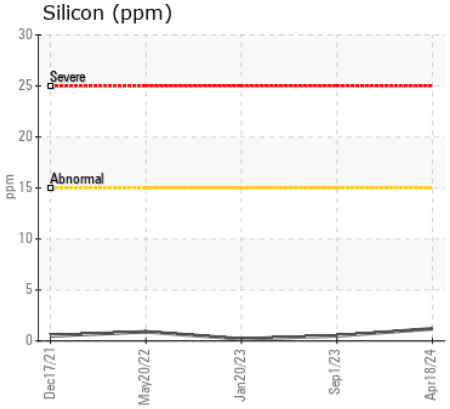
Chromium (ppm)



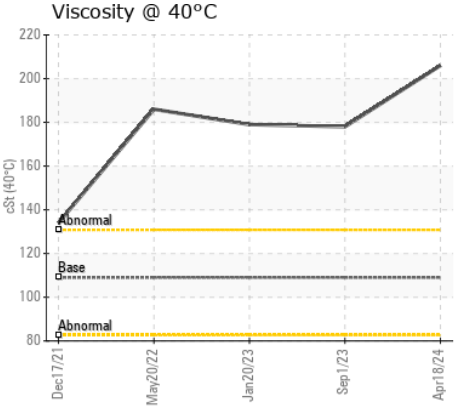
Copper (ppm)



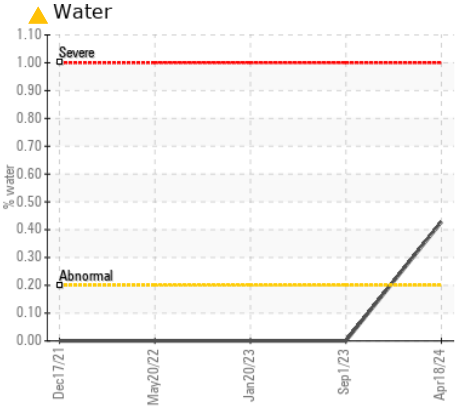
Silicon (ppm)



Viscosity @ 40°C



Water



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02631058
Unique Number : 5772211
Test Package : MOB 1 (Additional Tests: KF)

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Kevin Marson

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.

Transelec Common Inc.
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CA H7S 1P4
Contact: Service Manager

T:
F: