MOB I

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[605863-10241266]
Machine Id
LIEBHERR L526 051780-1558
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

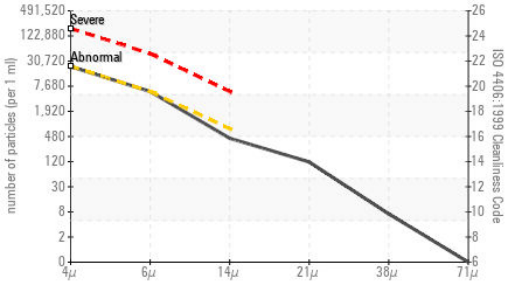
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

FLUID CONDITION

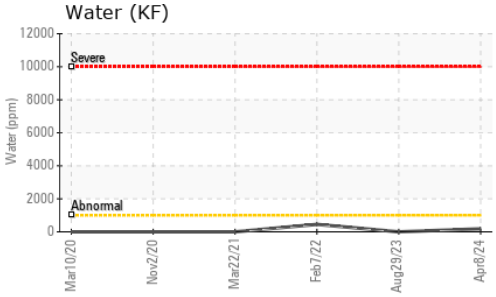
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276276	LH0274540	LH
Sample Date		Client Info		08 Apr 2024	29 Aug 2023	07 Feb 2022
Machine Age	hrs	Client Info		0	3031	1837
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE
Iron	ppm	ASTM D5185(m)	>20	10	<1	9
Chromium	ppm	ASTM D5185(m)	>10	5	0	3
Nickel	ppm	ASTM D5185(m)	>10	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	<1
Lead	ppm	ASTM D5185(m)	>10	6	0	5
Copper	ppm	ASTM D5185(m)	>75	4	0	3
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
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)	>20	<1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	1	4	1
Water	%	ASTM D6304*	>0.1	0.018	---	0.045
ppm Water	ppm	ASTM D6304*	>1000	182	---	451.5
Particles >4µm		ASTM D7647	>20000	19795	14749	▲ 189441
Particles >6µm		ASTM D7647	>5000	4997	3222	▲ 74691
Particles >14µm		ASTM D7647	>640	383	120	▲ 5258
Particles >21µm		ASTM D7647	>160	104	22	▲ 997
Particles >38µm		ASTM D7647	>40	6	1	16
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/16	21/19/14	▲ 25/23/20
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	VLITE	VLITE
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*	>0.1	.2%	NEG	.2%
Sodium	ppm	ASTM D5185(m)		1	<1	1
Boron	ppm	ASTM D5185(m)		<1	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		6	<1	6
Calcium	ppm	ASTM D5185(m)		1061	101	1096
Phosphorus	ppm	ASTM D5185(m)		551	676	587
Zinc	ppm	ASTM D5185(m)		673	835	704
Sulfur	ppm	ASTM D5185(m)		3545	1515	3479
Visc @ 40°C	cSt	ASTM D7279(m)		44.4	46.8	45.5

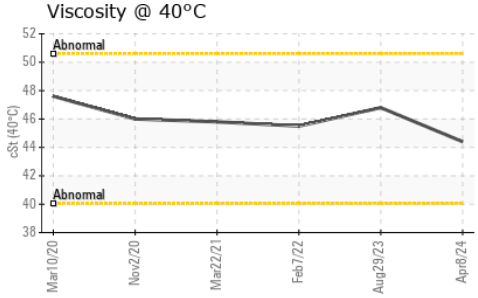
Particle Count



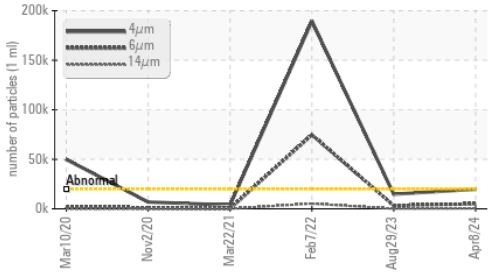
Water (KF)



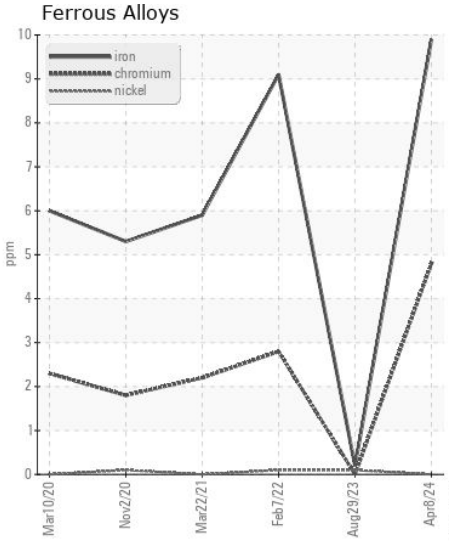
Viscosity @ 40°C



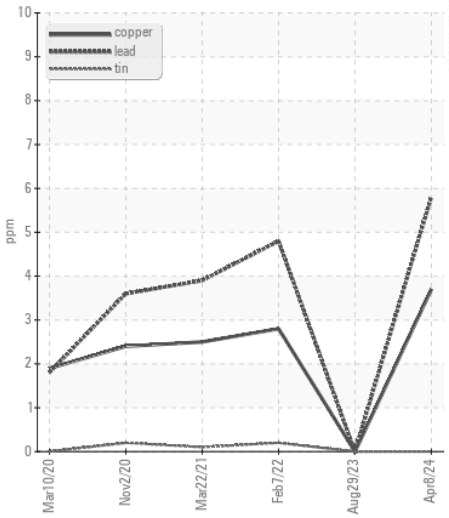
Particle Trend



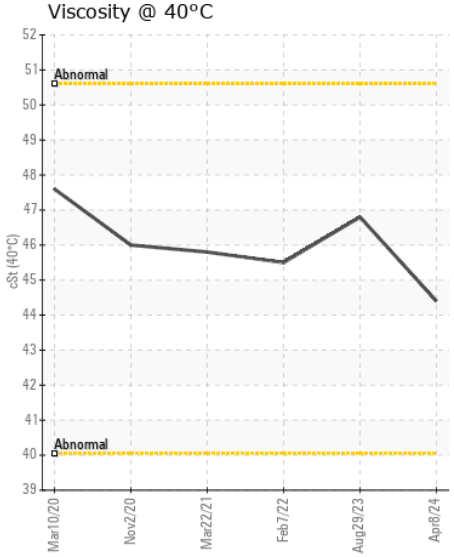
Ferrous Alloys



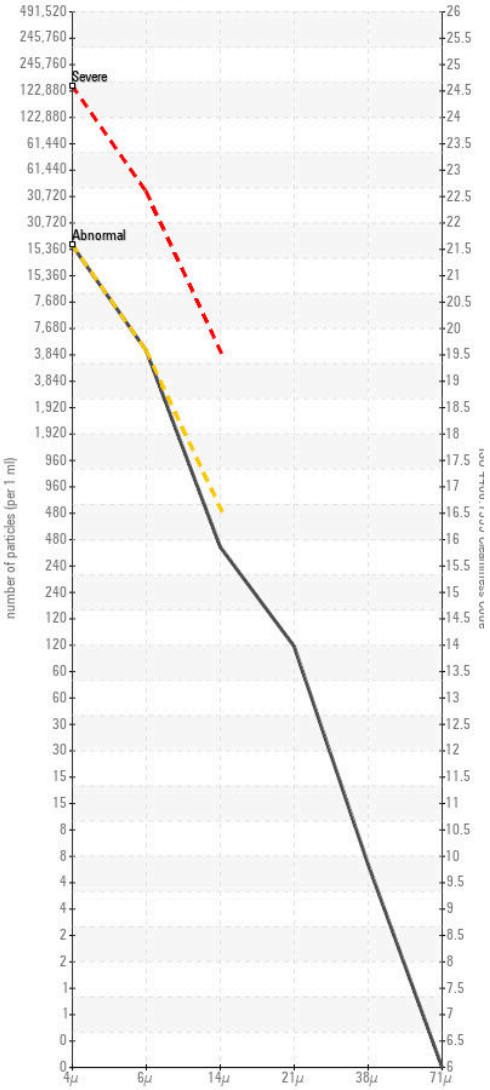
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: LH0276276	**Received**	: 09 Apr 2024
Lab Number	: 02627715	**Tested**	: 10 Apr 2024
Unique Number	: 5760847	**Diagnosed**	: 10 Apr 2024 - Wes Davis
Test Package	: MOB 1 (Additional Tests: KF, PrtCount)		

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.

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