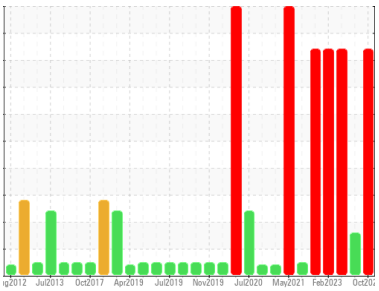
PROBLEM SUMMARY

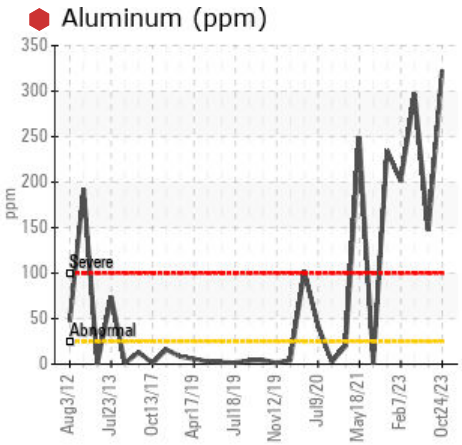
Area
AREA I [500313794]
Machine Id
PFAUDLER A0122 (S/N AD-10-15)
Component
Gearbox
Fluid
MOBIL SHC 634 (7 GAL)

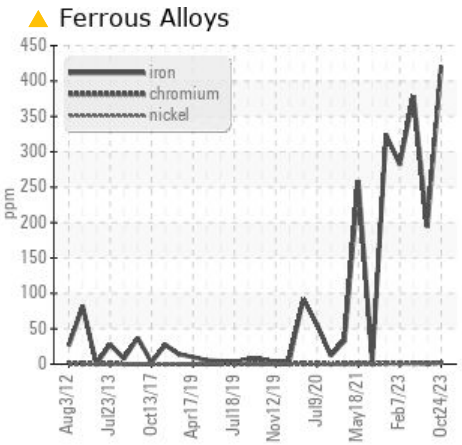
Sample Rating Trend

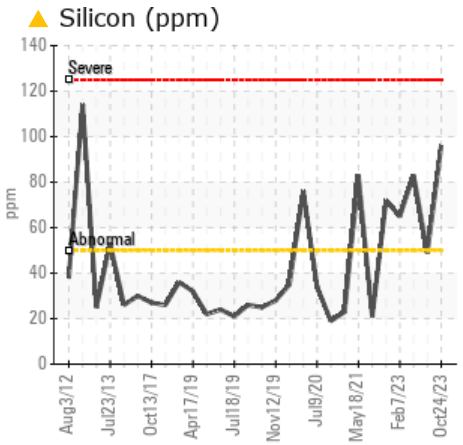


WEAR

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>200	▲ **421**	▲ 194	▲ 379
Aluminum	ppm	ASTM D5185m	>25	⬢ **323**	▲ 147	⬢ 297
Silicon	ppm	ASTM D5185m	>50	▲ **96**	49	▲ 83

Customer Id: ALBORA
Sample No.: WC0810639
Lab Number: 06014573
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

01 Aug 2023 Diag: Angela Borella

WEAR

No corrective action is recommended at this time. Resample at the next service interval to monitor.The aluminum level is abnormal. A decrease in the iron level is noted. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

08 May 2023 Diag: Don Baldridge

WEAR

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

07 Feb 2023 Diag: Angela Borella

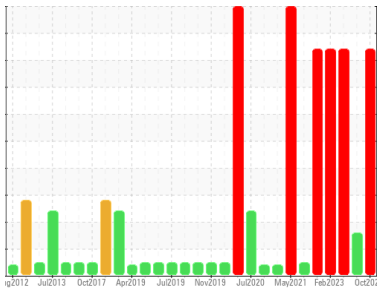
WEAR

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
AREA I [500313794]
Machine Id
PFAUDLER A0122 (S/N AD-10-15)
Component
Gearbox
Fluid
MOBIL SHC 634 (7 GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated.

Contamination
Elemental level of silicon (Si) above normal.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0810639**	WC0810620	WC0804407
Sample Date		Client Info		**24 Oct 2023**	01 Aug 2023	08 May 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **421**	▲ 194	▲ 379
Chromium	ppm	ASTM D5185m	>15	**2**	<1	2
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	● **323**	▲ 147	● 297
Lead	ppm	ASTM D5185m	>100	**<1**	<1	0
Copper	ppm	ASTM D5185m	>200	**22**	19	18
Tin	ppm	ASTM D5185m	>25	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

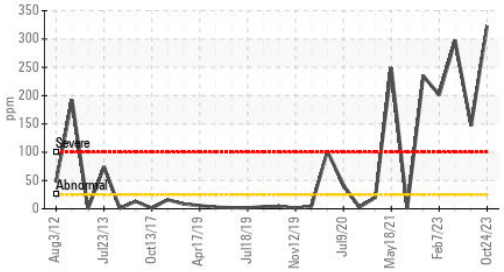
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	<1
Molybdenum	ppm	ASTM D5185m		**9**	6	8
Manganese	ppm	ASTM D5185m		**5**	2	4
Magnesium	ppm	ASTM D5185m		**6**	2	5
Calcium	ppm	ASTM D5185m		**19**	8	17
Phosphorus	ppm	ASTM D5185m		**525**	423	510
Zinc	ppm	ASTM D5185m		**86**	62	81
Sulfur	ppm	ASTM D5185m		**2694**	2664	2764

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **96**	49	▲ 83
Sodium	ppm	ASTM D5185m		**3**	0	3
Potassium	ppm	ASTM D5185m	>20	**2**	<1	2

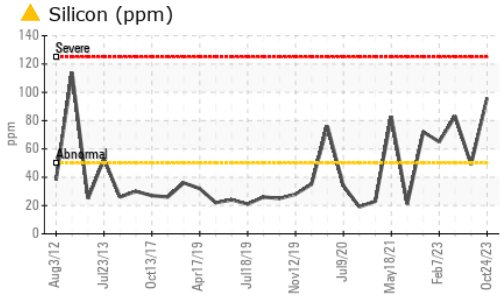
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.78**	0.77	0.73

OIL ANALYSIS REPORT

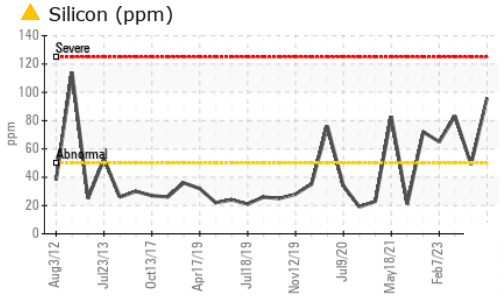
Aluminum (ppm)



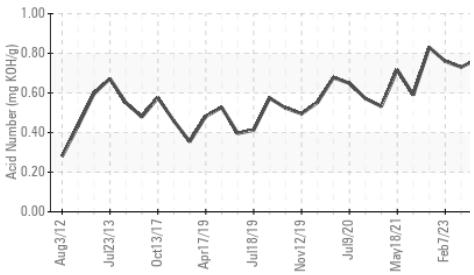
Silicon (ppm)



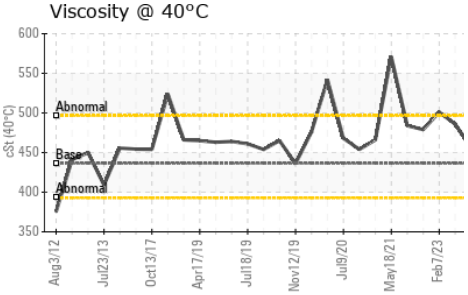
Silicon (ppm)



Acid Number



Viscosity @ 40°C



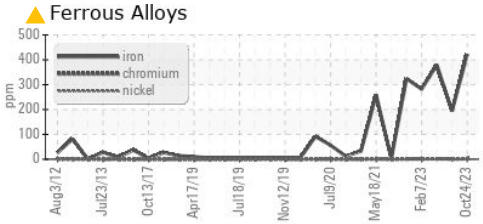
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	436.4	**490**	456	486

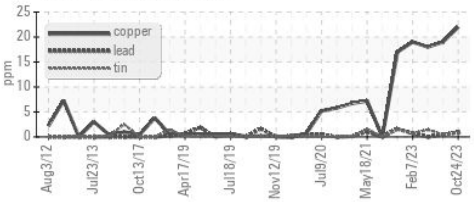
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

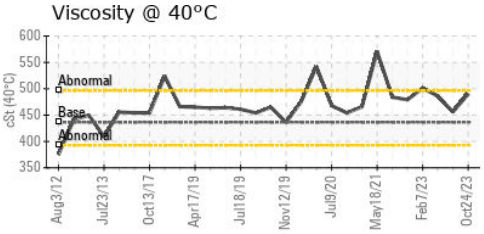
Ferrous Alloys



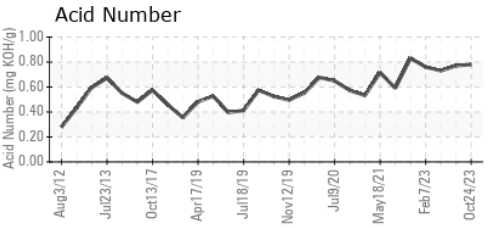
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0810639
Lab Number : 06014573
Unique Number : 10753717
Test Package : IND 2

Received : 21 Nov 2023
Diagnosed : 24 Nov 2023
Diagnostician : Don Baldridge

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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