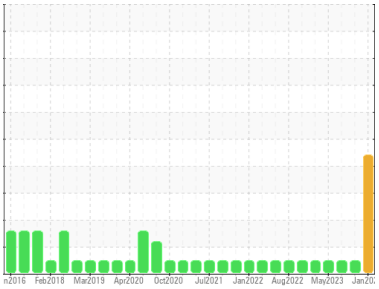
PROBLEM SUMMARY

Sample Rating Trend

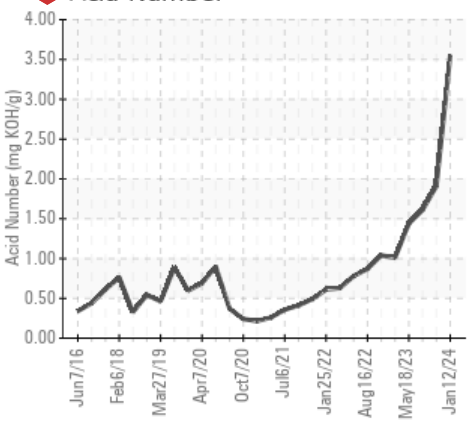


DEGRADATION

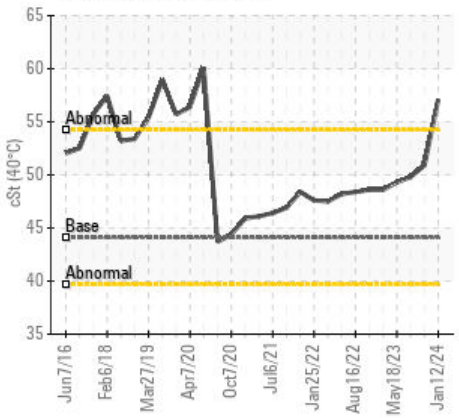
Area
UTILITIES
Machine Id
MS COMPRESSOR # 2 (S/N 16-6200)
Component
Air Compressor
Fluid
MOBIL SHC RARUS 46 (55 GAL)

COMPONENT CONDITION SUMMARY

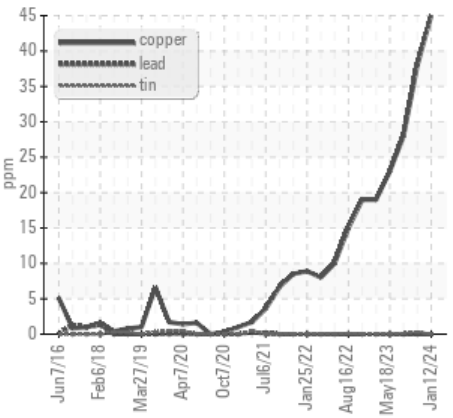
Acid Number



Viscosity @ 40°C



Non-ferrous Metals



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>40	▲ 45	38	28
Acid Number (AN)	mg KOH/g	ASTM D8045		⬢ 3.55	1.91	1.61
Visc @ 40°C	cSt	ASTM D445	44.1	▲ 57.1	50.9	49.8

Customer Id: OUTCALAL
Sample No.: RP0039150
Lab Number: 06062060
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
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

12 Sep 2023 Diag: Jonathan Hester

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

11 Jul 2023 Diag: Doug Bogart

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

18 May 2023 Diag: Don Baldridge

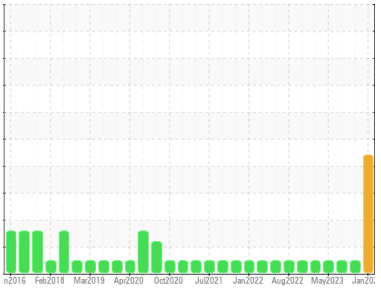
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
UTILITIES
Machine Id
MS COMPRESSOR # 2 (S/N 16-6200)
Component
Air Compressor
Fluid
MOBIL SHC RARUS 46 (55 GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

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

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0039150**	RP0035419	RP0035161
Sample Date		Client Info		**12 Jan 2024**	12 Sep 2023	11 Jul 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**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**16**	12	16
Iron	ppm	ASTM D5185m	>50	**2**	2	<1
Chromium	ppm	ASTM D5185m	>4	**0**	<1	0
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**1**	4	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>40	▲ **45**	38	28
Tin	ppm	ASTM D5185m	>5	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

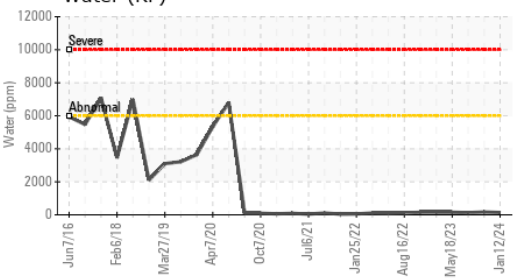
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	<1
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**<1**	<1	1
Calcium	ppm	ASTM D5185m		**5**	6	6
Phosphorus	ppm	ASTM D5185m		**120**	124	116
Zinc	ppm	ASTM D5185m		**250**	293	278

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	1	1
Sodium	ppm	ASTM D5185m		**55**	41	29
Potassium	ppm	ASTM D5185m	>20	**10**	8	8
Water	%	ASTM D6304	>0.6	**0.013**	0.016	0.013
ppm Water	ppm	ASTM D6304	>6000	**138**	167.0	131.4

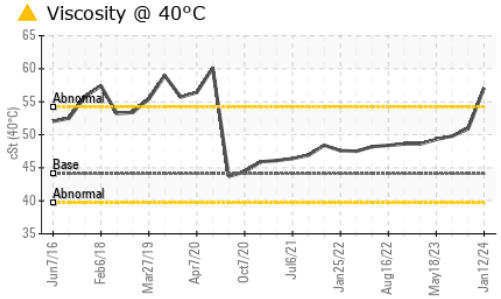
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		● **3.55**	1.91	1.61

OIL ANALYSIS REPORT

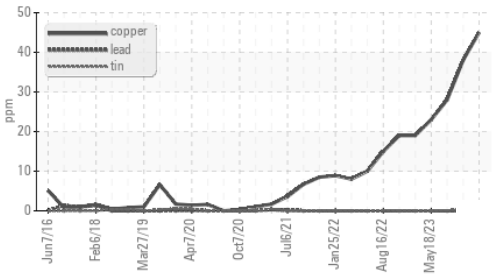
Water (KF)



Viscosity @ 40°C



Non-ferrous Metals



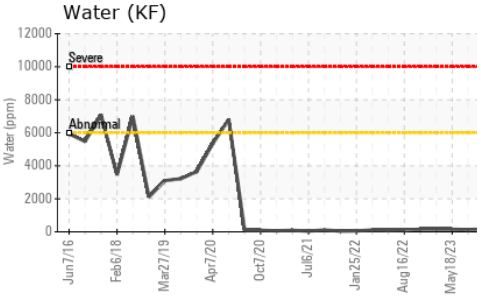
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.1	▲ **57.1**	50.9	49.8

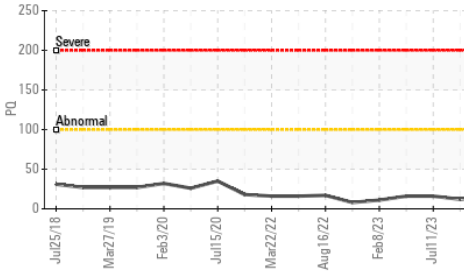
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

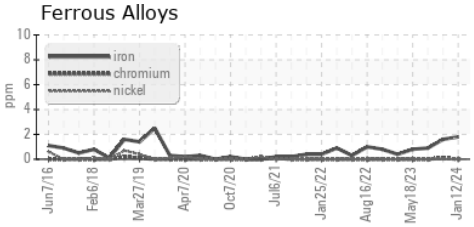
Water (KF)



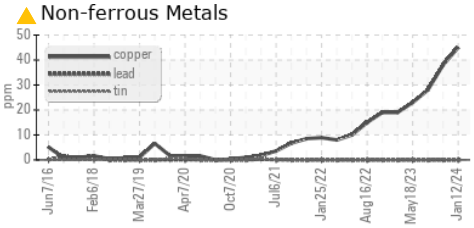
PQ



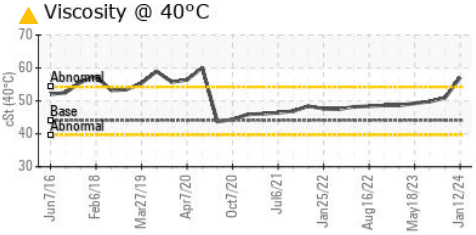
Ferrous Alloys



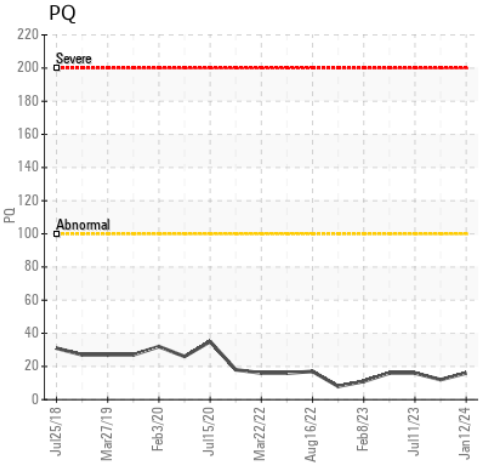
Non-ferrous Metals



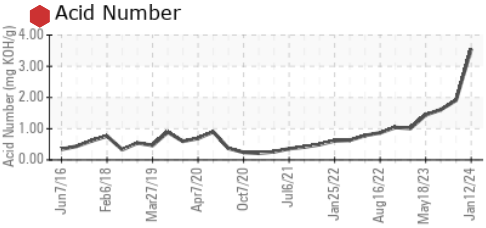
Viscosity @ 40°C



PQ



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039150 **Recieved** : 16 Jan 2024
Lab Number : 06062060 **Diagnosed** : 18 Jan 2024
Unique Number : 10833442 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PQ)

Certificate L2367

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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CALVERT, AL
US 36513
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Report Id: OUTCALAL [WUSCAR] 06062060 (Generated: 01/18/2024 13:45:55) Rev: 1

Submitted By: DALE ROBINSON