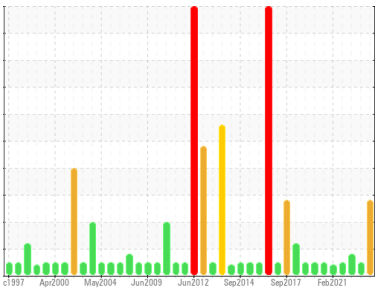
PROBLEM SUMMARY

Sample Rating Trend

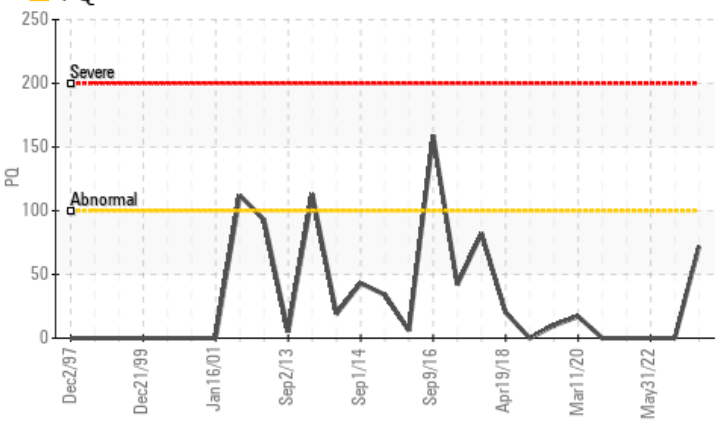


WEAR

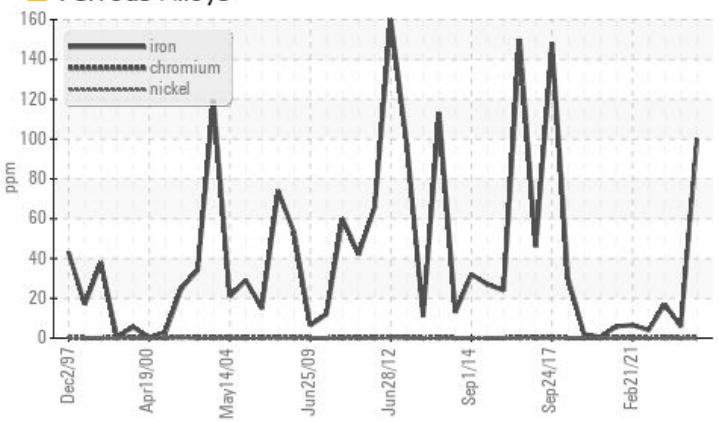
Machine Id
TEL5911 (S/N #1 Air Compressor)
Component
Air Compressor
Fluid
MOBIL RARUS 827 (7 LTR)

COMPONENT CONDITION SUMMARY

▲ PQ



▲ Ferrous Alloys



RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184*		▲ 72	0	0
Iron	ppm	ASTM D5185(m)	>50	▲ 100	6	17

Customer Id: CCGSTEL
Sample No.: WC0784045
Lab Number: 02576185
Test Package: MAR 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

09 Jul 2022 Diag: Wes Davis

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

31 May 2022 Diag: Kevin Marson

WEAR

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Tin ppm levels are abnormal. Piston wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

28 Sep 2021 Diag: Wes Davis

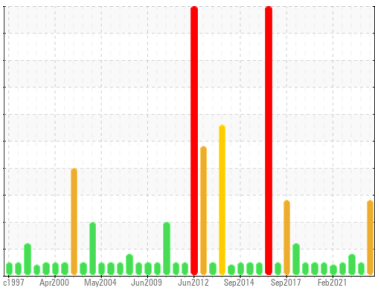
NORMAL

Resample at the next service interval to monitor.All 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 suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
TEL5911 (S/N #1 Air Compressor)
Component
Air Compressor
Fluid
MOBIL RARUS 827 (7 LTR)

DIAGNOSIS

▲ Recommendation
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear
PQ levels are abnormal. Iron ppm levels are abnormal. Cylinder or oil pump wear indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear. NOTE: The color of the oil is darker then previous samples.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0784045**	WC0705161	WC0705149
Sample Date		Client Info		**02 Aug 2023**	09 Jul 2022	31 May 2022
Machine Age	hrs	Client Info		**5633**	4602	4554
Oil Age	hrs	Client Info		**250**	48	264
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL

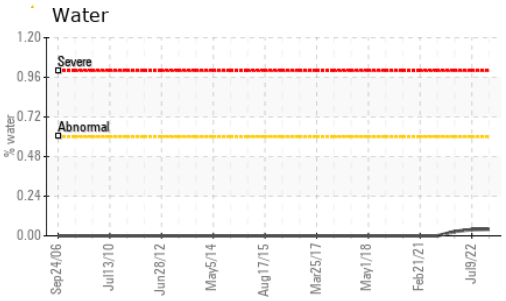
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ **72**	0	0
Iron	ppm	ASTM D5185(m)	>50	▲ **100**	6	17
Chromium	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**<1**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>10	**6**	<1	<1
Lead	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>40	**2**	<1	<1
Tin	ppm	ASTM D5185(m)	>5	**2**	3	▲ 9
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

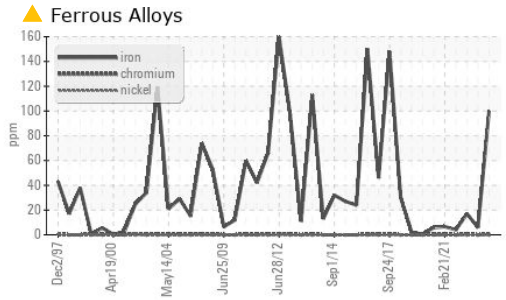
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	<1
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**<1**	0	0
Magnesium	ppm	ASTM D5185(m)		**1**	0	0
Calcium	ppm	ASTM D5185(m)		**4**	0	<1
Phosphorus	ppm	ASTM D5185(m)		**396**	385	405
Zinc	ppm	ASTM D5185(m)		**4**	<1	1
Sulfur	ppm	ASTM D5185(m)		**9**	2	22
Lithium	ppm	ASTM D5185(m)		**<1**	<1	0

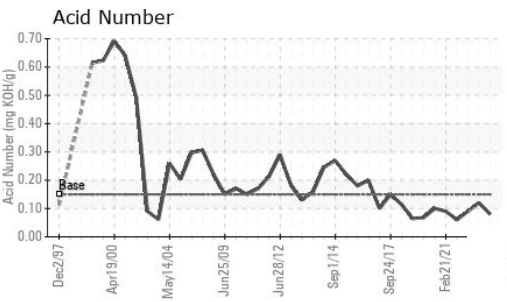
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	<1	<1
Sodium	ppm	ASTM D5185(m)		**1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	<1
Water	%	ASTM D6304*	>0.6	**0.040**	0.038	0.026
ppm Water	ppm	ASTM D6304*	>6000	**403.7**	388.0	267.8

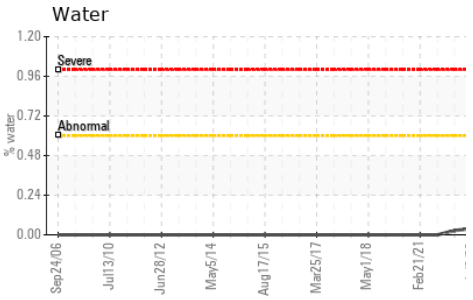
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.15	**0.08**	0.12	0.09

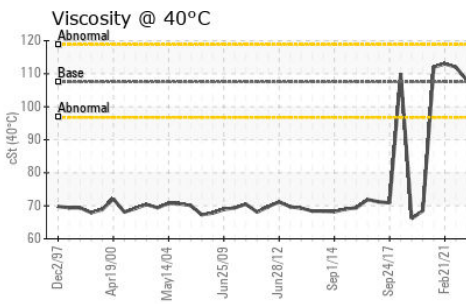
OIL ANALYSIS REPORT





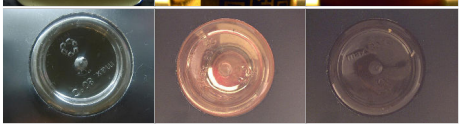




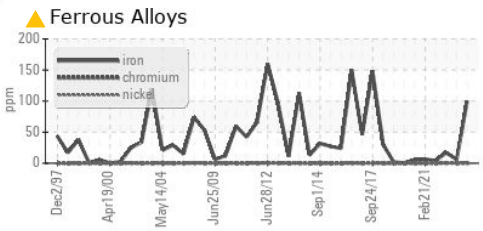


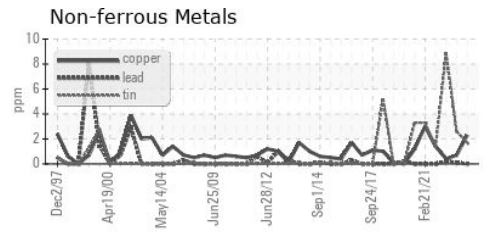
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	VLITE
Sand/Dirt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

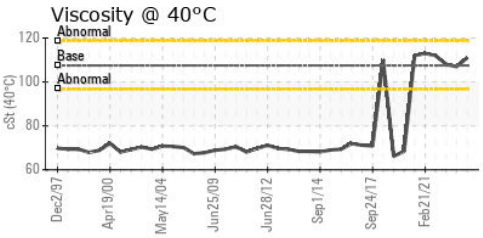
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	107.5	**111**	107	108

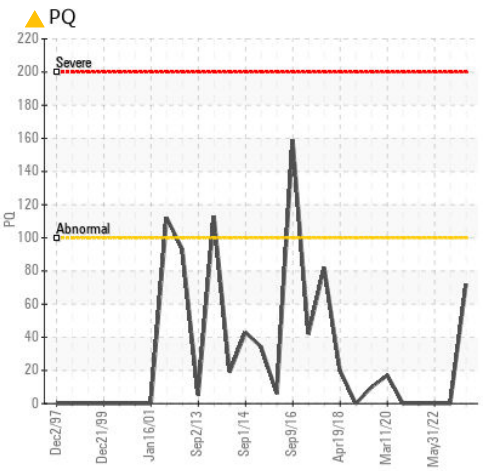
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

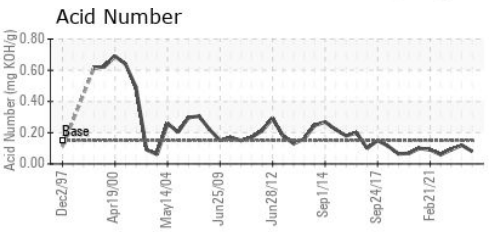
GRAPHS











ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0784045 **Received** : 16 Aug 2023
Lab Number : 02576185 **Diagnosed** : 17 Aug 2023
Unique Number : 5629245 **Diagnostician** : Kevin Marson
Test Package : MAR 2 (Additional Tests: KF, TAN Man)

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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