



PROBLEM SUMMARY

Sample Rating Trend

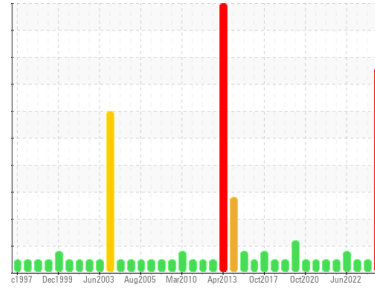
WATER



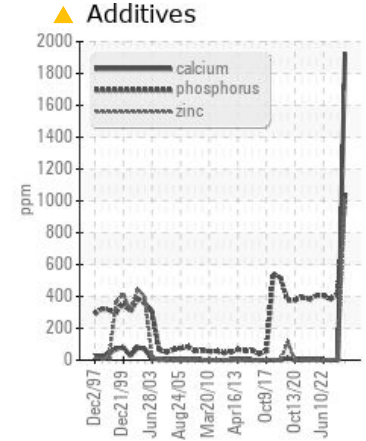
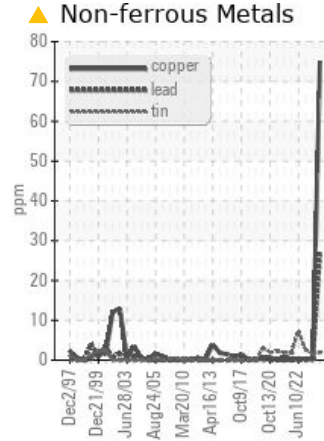
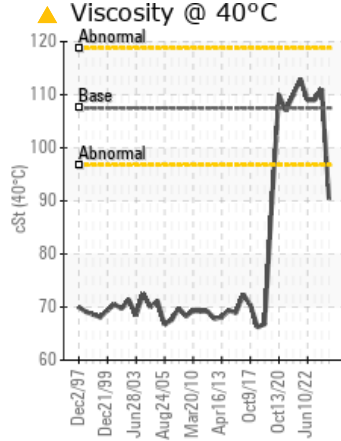
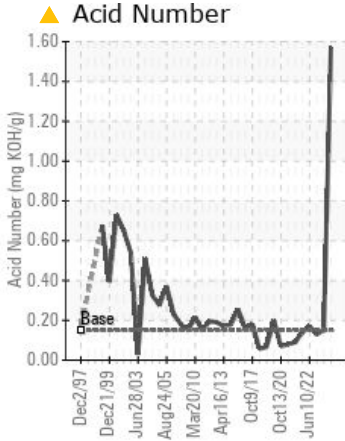
Machine Id
TEL5912 (S/N #2 Air Compressor)

Component
2 Air Compressor

Fluid
MOBIL RARUS 827 (4 LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Lead	ppm	ASTM D5185(m)	>20	▲ 27	<1	<1
Copper	ppm	ASTM D5185(m)	>40	▲ 75	<1	<1
Magnesium	ppm	ASTM D5185(m)		▲ 348	<1	0
Calcium	ppm	ASTM D5185(m)		▲ 1930	0	0
Phosphorus	ppm	ASTM D5185(m)		▲ 1022	412	383
Zinc	ppm	ASTM D5185(m)		▲ 1006	<1	<1
Sulfur	ppm	ASTM D5185(m)		▲ 3071	13	3
Acid Number (AN)	mg KOH/g	ASTM D974*	0.15	▲ 1.57	0.15	0.13
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML
Free Water	scalar	Visual*		▲ 1%	NEG	NEG
Visc @ 40°C	cSt	ASTM D7279(m)	107.5	▲ 90.4	111	109

Customer Id: CCGSTEL
Sample No.: WC0836395
Lab Number: 02578498
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 advise an early resample to confirm this situation.
Alert	---	---	?	NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

HISTORICAL DIAGNOSIS

06 Sep 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](#)



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](#)



10 Jun 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.

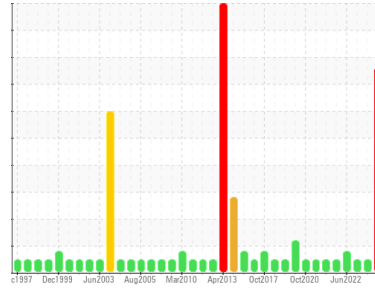
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OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
TEL5912 (S/N #2 Air Compressor)

Component
2 Air Compressor

Fluid
MOBIL RARUS 827 (4 LTR)

DIAGNOSIS

Recommendation

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

Wear

Copper and lead ppm levels are abnormal. Bearing wear is indicated.

Contamination

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

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0836395	WC0705164	WC0705162
Sample Date	Client Info	10 Aug 2023	06 Sep 2022	09 Jul 2022
Machine Age	hrs	250	5027	4693
Oil Age	hrs	250	250	117
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	0
Iron	ppm	7	2	2
Chromium	ppm	<1	0	0
Nickel	ppm	<1	0	0
Titanium	ppm	<1	0	0
Silver	ppm	0	0	0
Aluminum	ppm	1	2	<1
Lead	ppm	▲ 27	<1	<1
Copper	ppm	▲ 75	<1	<1
Tin	ppm	2	2	3
Antimony	ppm	0	<1	<1
Vanadium	ppm	0	0	0
Beryllium	ppm	0	0	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	4	<1	<1
Barium	ppm	0	0	0
Molybdenum	ppm	<1	0	0
Manganese	ppm	<1	0	0
Magnesium	ppm	▲ 348	<1	0
Calcium	ppm	▲ 1930	0	0
Phosphorus	ppm	▲ 1022	412	383
Zinc	ppm	▲ 1006	<1	<1
Sulfur	ppm	▲ 3071	13	3
Lithium	ppm	<1	<1	<1

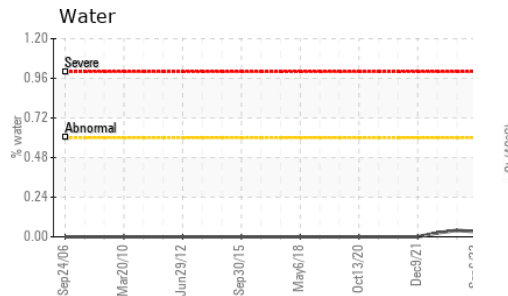
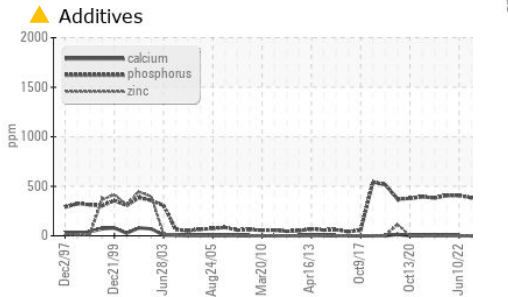
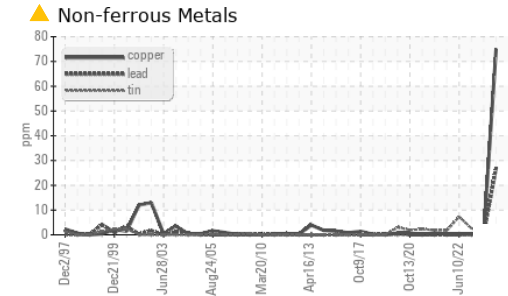
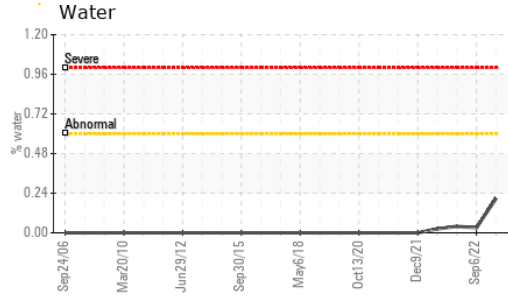
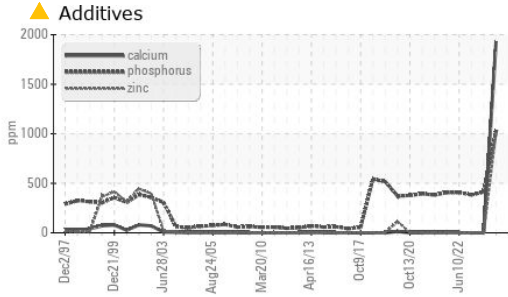
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	7	<1	<1
Sodium	ppm	36	<1	0
Potassium	ppm	1	<1	0
Water	%	0.208	0.031	0.039
ppm Water	ppm	2088.1	314.2	397.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	▲ 1.57	0.15	0.13

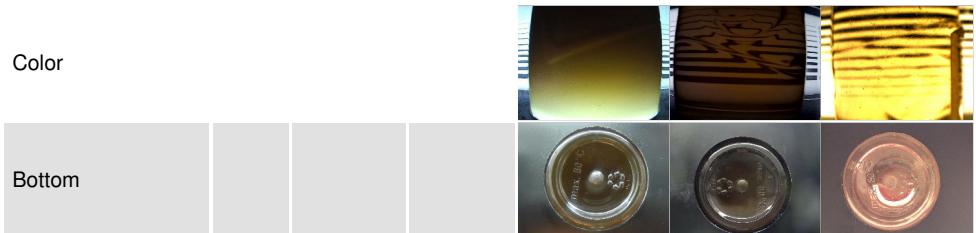
OIL ANALYSIS REPORT



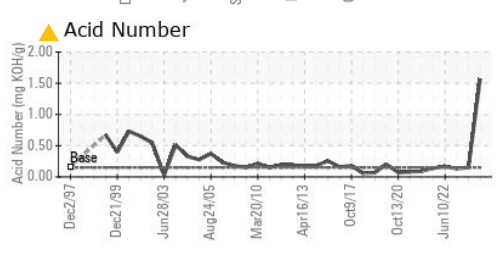
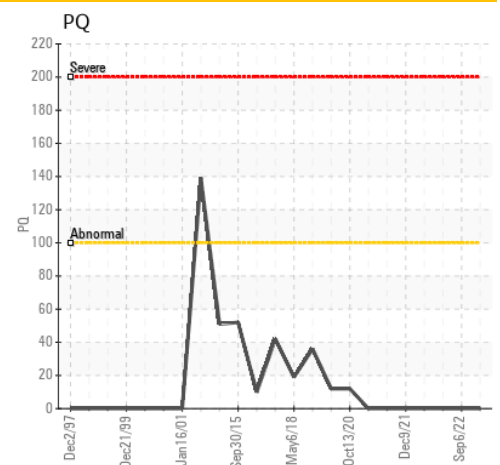
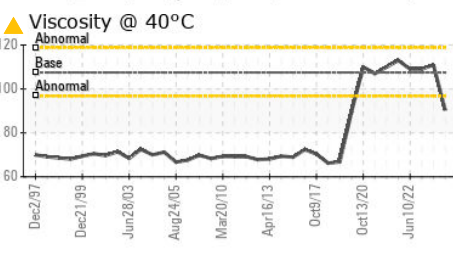
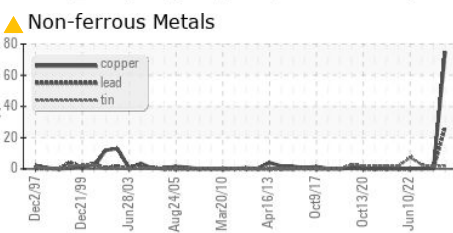
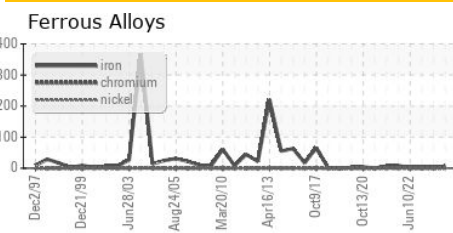
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	.2%	NEG
Free Water	scalar	Visual*		▲ 1%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	107.5	▲ 90.4	111

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0836395 **Received** : 25 Aug 2023
Lab Number : 02578498 **Diagnosed** : 28 Aug 2023
Unique Number : 5631558 **Diagnostician** : Kevin Marson
Test Package : MAR 2 (Additional Tests: KF, TAN Man)

CANADIAN COAST GUARD
 CCGS TELEOST, PO BOX 5667, 280 SOUTHSIDE RD.
 ST. JOHN'S, NL
 CA A1C 5X1
 Contact: Chief Engineer
 TeleostCE@ccgs-ngcc.gc.ca
 T: x:
 F: (709)772-3652

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.