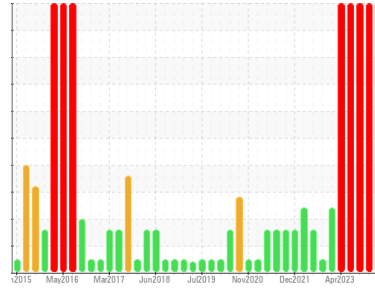




# PROBLEM SUMMARY

Sample Rating Trend

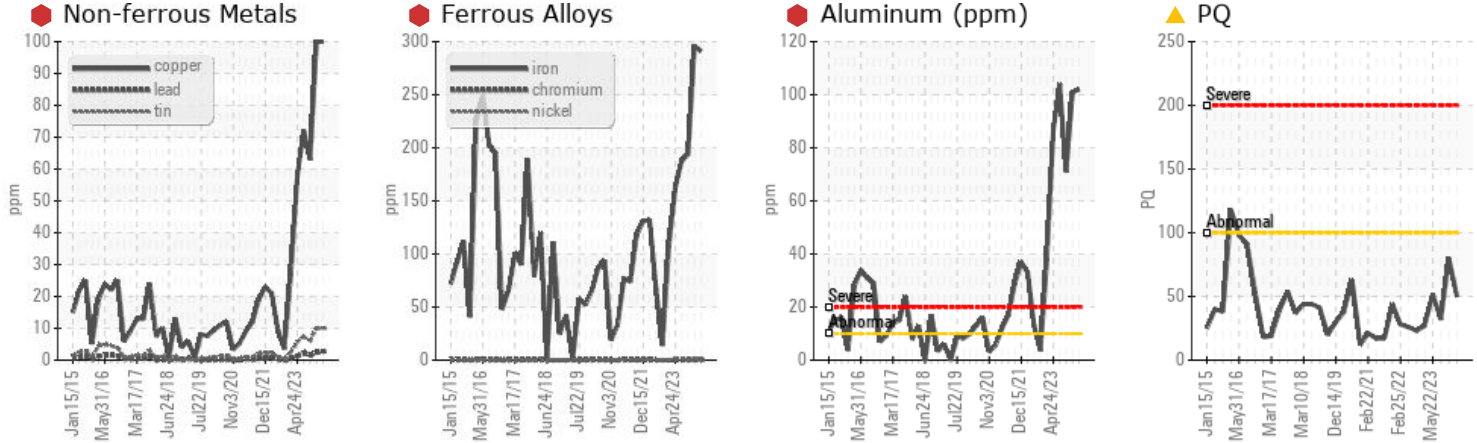


**WEAR**



Area  
**ENGINE ROOM 3RD DECK**  
 Machine Id  
**27-K-6410A MAIN AIR COMPRESSOR A (S/N Maint Plan 22465)**  
 Component  
**1 Air Compressor**  
 Fluid  
**MOBIL RARUS 826 (4 LTR)**

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend that you inspect the oil pump. We recommend an early resample to monitor this condition.

### PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	SEVERE
PQ		ASTM D8184*	▲ 50	▲ 80	32
Iron	ppm	ASTM D5185(m) >50	● 291	● 296	● 194
Aluminum	ppm	ASTM D5185(m) >10	● 102	● 101	● 71
Copper	ppm	ASTM D5185(m) >40	● 100	● 100	▲ 63
Tin	ppm	ASTM D5185(m) >5	▲ 10	▲ 10	▲ 6

Customer Id: SPESTJ  
 Sample No.: PP  
 Lab Number: 02607514  
 Test Package: IND 1



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](mailto:Kevin.Marson@wearcheck.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We recommend that you inspect the oil pump.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 16 Nov 2023 Diag: Kevin Marson

#### WEAR



We recommend that you drain the oil from the component if this has not already been done. We recommend that you inspect the oil pump. We recommend an early resample to monitor this condition. Aluminum and copper and iron ppm levels are severe. PQ levels are abnormal. Tin ppm levels are abnormal. Cylinder or oil pump wear indicated. Oil cooler core leaching or motor piston wear is indicated. Bearing wear is indicated. Piston wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. 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



### 26 Aug 2023 Diag: Bill Quesnel

#### WEAR



We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Aluminum and iron ppm levels are severe. Tin and copper ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated. Bearing wear is indicated. Piston wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



### 22 May 2023 Diag: Kevin Marson

#### WEAR



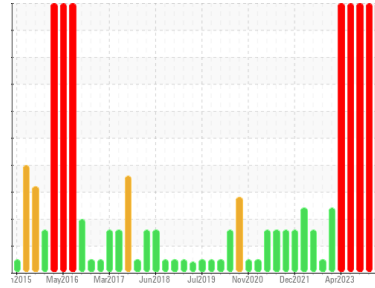
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area  
**ENGINE ROOM 3RD DECK**  
 Machine Id  
**27-K-6410A MAIN AIR COMPRESSOR A (S/N Maint Plan 22465)**  
 Component  
**1 Air Compressor**  
 Fluid  
**MOBIL RARUS 826 (4 LTR)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend that you inspect the oil pump. We recommend an early resample to monitor this condition.

### Wear

Aluminum and copper and iron ppm levels are severe. PQ levels are abnormal. Tin ppm levels are abnormal. Cylinder or oil pump wear indicated. Oil cooler core leaching or motor piston wear is indicated. Bearing wear is indicated. Piston wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

### Contamination

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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PP</b>	PP	PP
Sample Date	Client Info		<b>27 Nov 2023</b>	16 Nov 2023	26 Aug 2023
Machine Age	days	Client Info	<b>0</b>	0	0
Oil Age	days	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.6	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>▲ 50</b>	▲ 80	32
Iron	ppm	ASTM D5185(m) >50	<b>● 291</b>	● 296	● 194
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >10	<b>● 102</b>	● 101	● 71
Lead	ppm	ASTM D5185(m) >20	<b>3</b>	2	2
Copper	ppm	ASTM D5185(m) >40	<b>● 100</b>	● 100	▲ 63
Tin	ppm	ASTM D5185(m) >5	<b>▲ 10</b>	▲ 10	▲ 6
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	<b>14</b>	14	9
Manganese	ppm	ASTM D5185(m)	<b>2</b>	3	2
Magnesium	ppm	ASTM D5185(m)	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	<b>2</b>	2	2
Phosphorus	ppm	ASTM D5185(m)	<b>141</b>	149	117
Zinc	ppm	ASTM D5185(m)	<b>31</b>	30	23
Sulfur	ppm	ASTM D5185(m)	<b>15</b>	49	35
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

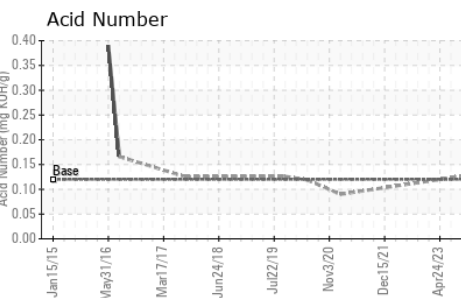
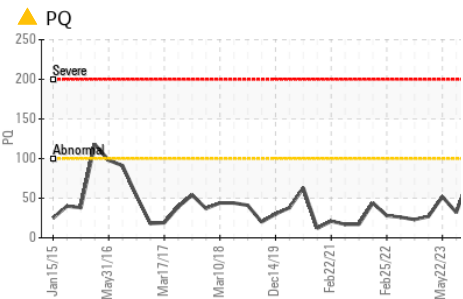
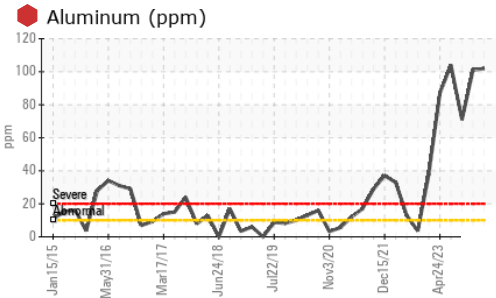
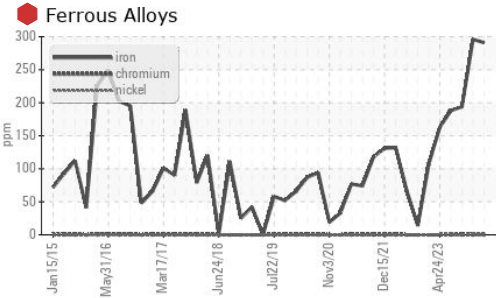
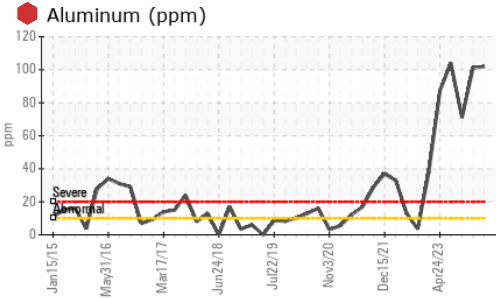
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>18</b>	19	13
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* .12	<b>0.25</b>	0.13	---

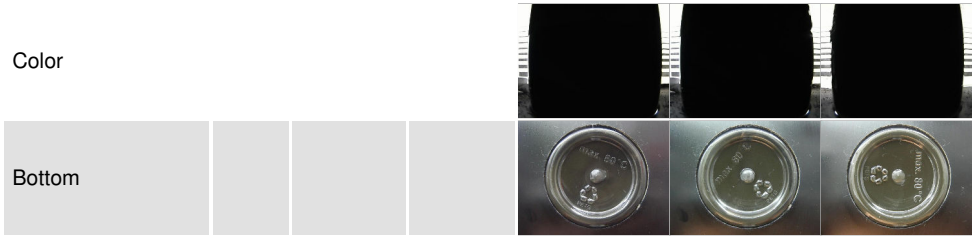
# OIL ANALYSIS REPORT



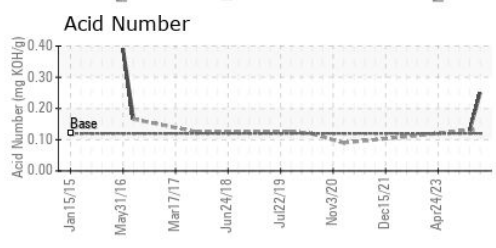
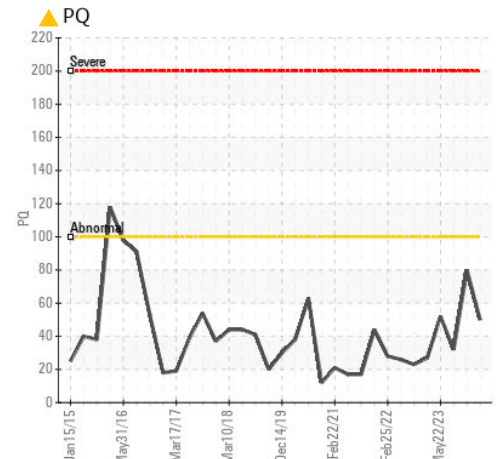
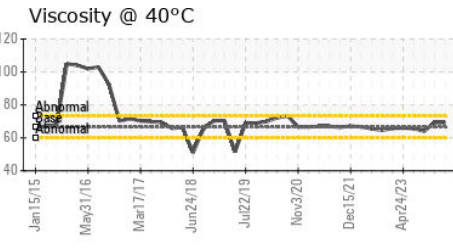
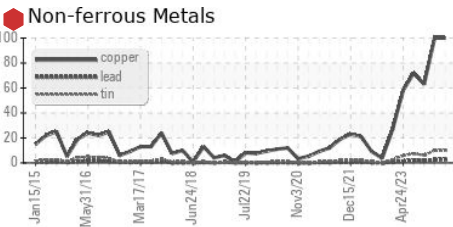
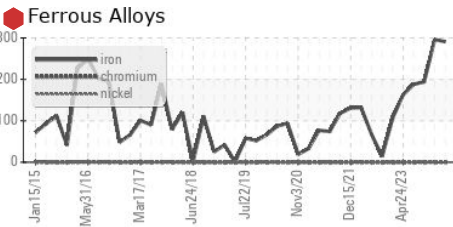
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	66.5	69.2	69.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY SEA ROSE /AKER SOLUTIONS  
**Sample No.** : PP **Received** : 09 Jan 2024  
**Lab Number** : 02607514 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708600 **Diagnostician** : Kevin Marson  
**Test Package** : IND 1 ( Additional Tests: PQ, TAN Auto, 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.

ST. JOHN'S, NL  
 CA A1C 6C9  
 Contact: Maintenance Supervisor  
 maintsuper.searose@huskyenergy.ca  
 T: x:  
 F: x: