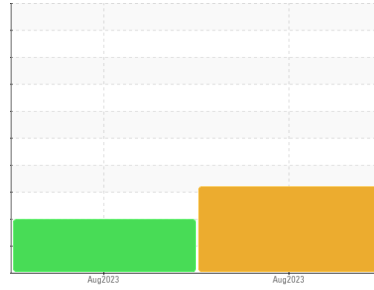




PROBLEM SUMMARY

Area
[00249904]
 Machine Id
HUSSMANN RCSS1566 RACK A
 Component
A Refrigeration Compressor
 Fluid
MARS ALKYBENZENE (--- LTR)

Sample Rating Trend

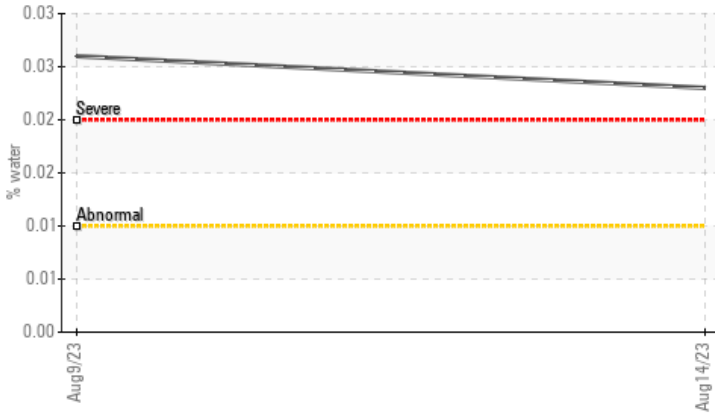


WATER



COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check for visible metal particles in the oil. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Water	%	ASTM D6304*	>0.01	▲ 0.023	▲ 0.026	---
ppm Water	ppm	ASTM D6304*	>100	▲ 234.3	▲ 261.7	---
White Metal	scalar	Visual*	NONE	▲ VLITE	NONE	---
Debris	scalar	Visual*	NONE	▲ VLITE	▲ VLITE	---
PrtFilter						no image

Customer Id: DISED
 Sample No.: WC0843999
 Lab Number: 02575938
 Test Package: IND 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.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

HISTORICAL DIAGNOSIS

WATER



09 Aug 2023 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. **DISCLAIMER:** Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified. All component wear rates are normal. There is a moderate concentration of water present in the oil. Light concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report

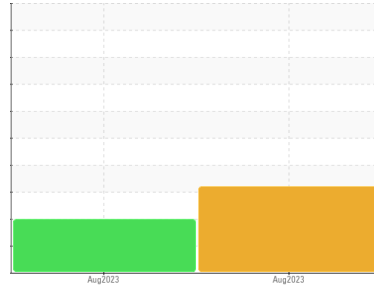




OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
[00249904]
 Machine Id
HUSSMANN RCSS1566 RACK A
 Component
A Refrigeration Compressor
 Fluid
MARS ALKYBENZENE (--- LTR)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We advise that you check for visible metal particles in the oil. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

▲ Wear

Light concentration of visible metal present.

▲ Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0843999	WC0843998	---
Sample Date	Client Info	14 Aug 2023	09 Aug 2023	---
Machine Age	hrs Client Info	0	0	---
Oil Age	hrs Client Info	0	0	---
Oil Changed	Client Info	Not Changed	Not Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	---
Iron	ppm ASTM D5185(m) >8	2	2	---
Chromium	ppm ASTM D5185(m) >2	0	0	---
Nickel	ppm ASTM D5185(m)	0	<1	---
Titanium	ppm ASTM D5185(m)	0	0	---
Silver	ppm ASTM D5185(m) >2	0	0	---
Aluminum	ppm ASTM D5185(m) >3	<1	<1	---
Lead	ppm ASTM D5185(m) >2	<1	<1	---
Copper	ppm ASTM D5185(m) >8	2	2	---
Tin	ppm ASTM D5185(m) >4	0	0	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<1	<1	---
Barium	ppm ASTM D5185(m)	0	0	---
Molybdenum	ppm ASTM D5185(m)	0	0	---
Manganese	ppm ASTM D5185(m)	0	0	---
Magnesium	ppm ASTM D5185(m)	<1	<1	---
Calcium	ppm ASTM D5185(m)	<1	<1	---
Phosphorus	ppm ASTM D5185(m)	622	614	---
Zinc	ppm ASTM D5185(m)	4	4	---
Sulfur	ppm ASTM D5185(m)	12	13	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

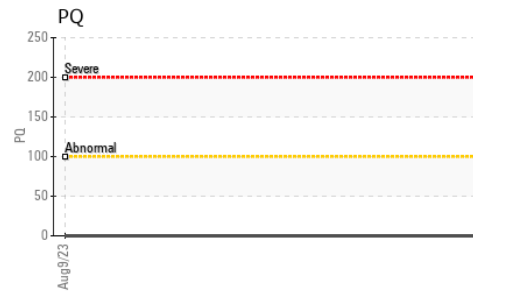
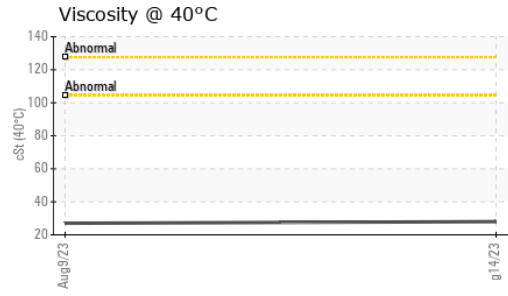
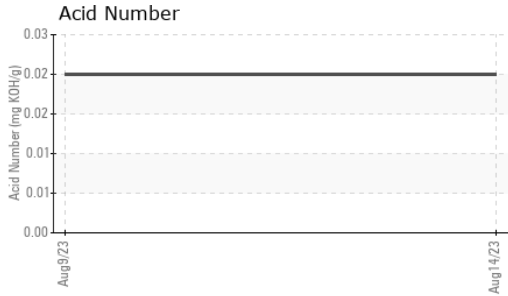
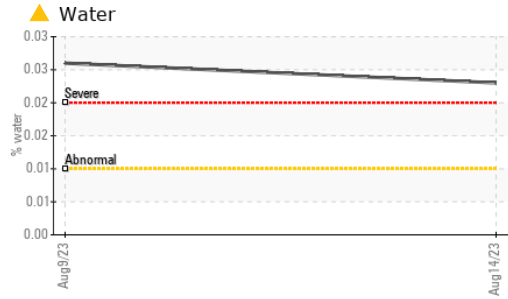
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	4	4	---
Sodium	ppm ASTM D5185(m)	0	0	---
Potassium	ppm ASTM D5185(m) >20	<1	<1	---
Water	% ASTM D6304* >0.01	▲ 0.023	▲ 0.026	---
ppm Water	ppm ASTM D6304* >100	▲ 234.3	▲ 261.7	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.02	0.02	---



OIL ANALYSIS REPORT



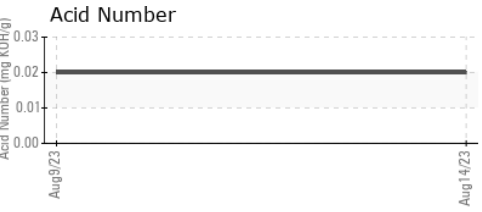
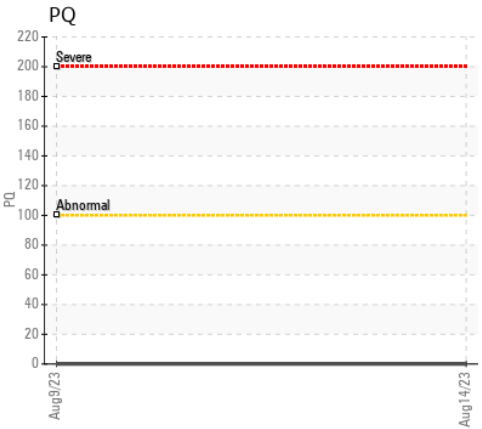
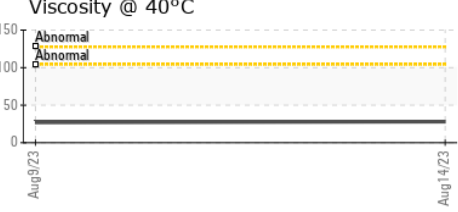
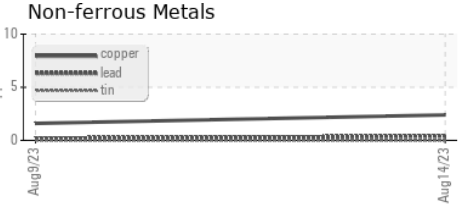
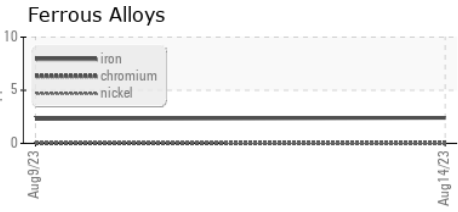
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	▲ VLITE	▲ VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	FREON	FREON
Emulsified Water	scalar	Visual*	>0.01	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	28.0	27.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image
Bottom			no image
PrtFilter			no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0843999 **Received** : 15 Aug 2023
Lab Number : 02575938 **Diagnosed** : 24 Aug 2023
Unique Number : 5628998 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH)

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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