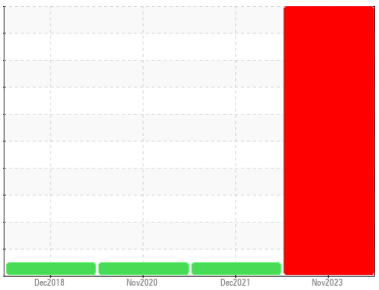
PROBLEM SUMMARY

Sample Rating Trend

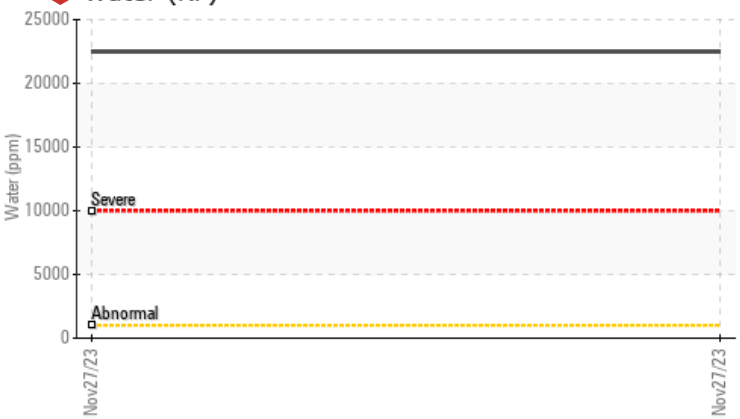


WATER

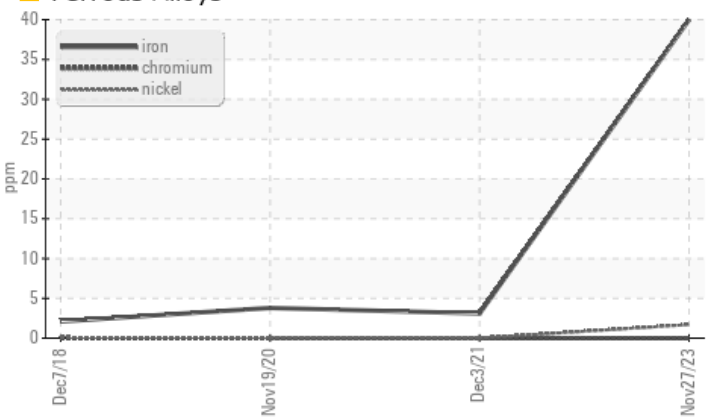
Machine Id
INGERSOLL RAND 2 - APPALACHIAN SKI (S/N 32082U82)
Component
Compressor
Fluid
PG 32 (--- GAL)

COMPONENT CONDITION SUMMARY

Water (KF)



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				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**40**	3	4
Water	%	ASTM D6304	>0.1	**2.25**	---	---
ppm Water	ppm	ASTM D6304	>1000	**22500**	---	---
Silt	scalar	*Visual	NONE	**MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**MODER**	VLITE	NONE
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		**10.0**	NEG	NEG

Customer Id: AIRGREWC
Sample No.: WC0874236
Lab Number: 06026637
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

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

HISTORICAL DIAGNOSIS

03 Dec 2021 Diag: Jonathan Hester

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

19 Nov 2020 Diag: Don Baldridge

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

07 Dec 2018 Diag: Don Baldridge

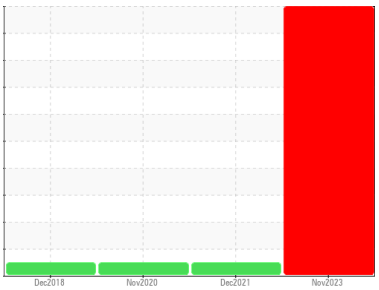
NORMAL

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



WATER

Machine Id
INGERSOLL RAND 2 - APPALACHIAN SKI (S/N 32082U82)
Component
Compressor
Fluid
PG 32 (--- GAL)

DIAGNOSIS

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

Wear
The iron level is marginal.

Contamination
Excessive free water present. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0874236**	WC0628119	WC0500880
Sample Date		Client Info		**27 Nov 2023**	03 Dec 2021	19 Nov 2020
Machine Age	hrs	Client Info		**10354**	9768	9375
Oil Age	hrs	Client Info		**1376**	0	1260
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**SEVERE**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ **40**	3	4
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m		**2**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	0	0
Lead	ppm	ASTM D5185m	>25	**3**	0	1
Copper	ppm	ASTM D5185m	>50	**10**	<1	2
Tin	ppm	ASTM D5185m	>15	**6**	0	1
Antimony	ppm	ASTM D5185m		**---**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**3**	2	3

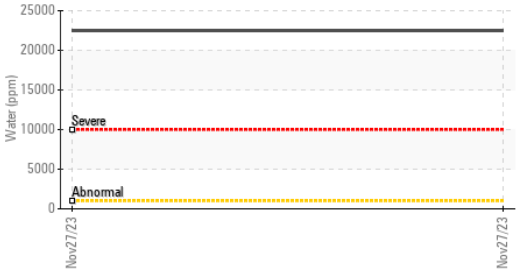
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**4**	0	2
Barium	ppm	ASTM D5185m		**518**	888	892
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**0**	0	<1
Calcium	ppm	ASTM D5185m		**8**	0	2
Phosphorus	ppm	ASTM D5185m		**6**	0	2
Zinc	ppm	ASTM D5185m		**8**	0	4
Sulfur	ppm	ASTM D5185m		**392**	9	282

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**4**	0	0
Sodium	ppm	ASTM D5185m		**15**	26	22
Potassium	ppm	ASTM D5185m	>20	**7**	0	1
Water	%	ASTM D6304	>0.1	⬢ **2.25**	---	---
ppm Water	ppm	ASTM D6304	>1000	⬢ **22500**	---	---

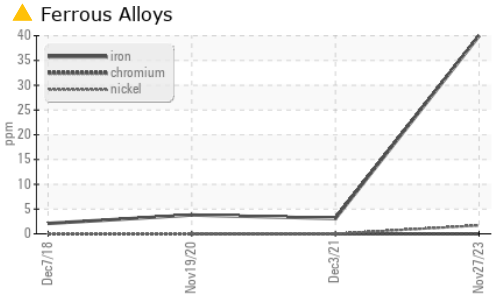
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.17**	0.302	0.343

OIL ANALYSIS REPORT

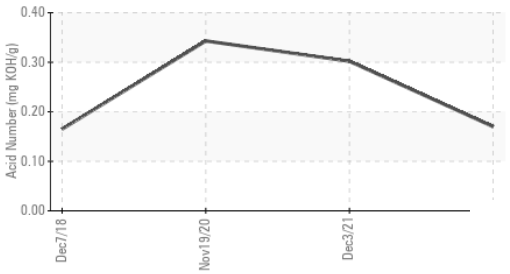
Water (KF)



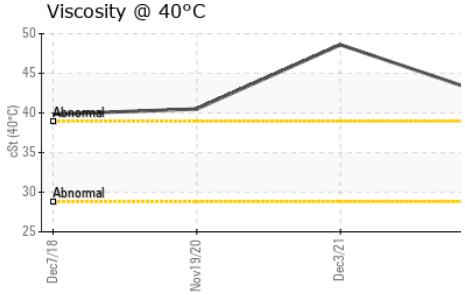
Ferrous Alloys



Acid Number

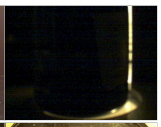
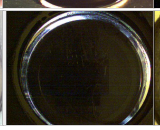


Viscosity @ 40°C



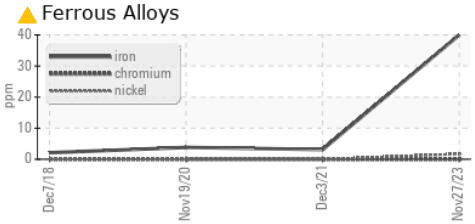
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	VLITE	NONE
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	>0.1	⬢ **0.2%**	NEG	NEG
Free Water	scalar	*Visual		⬢ **10.0**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**42.5**	48.6	40.5

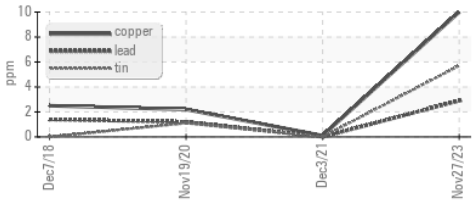
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

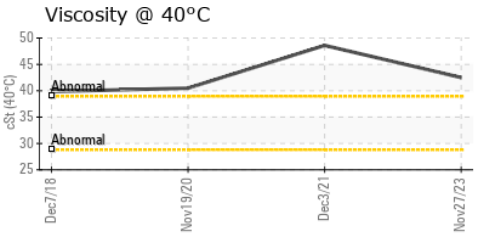
Ferrous Alloys



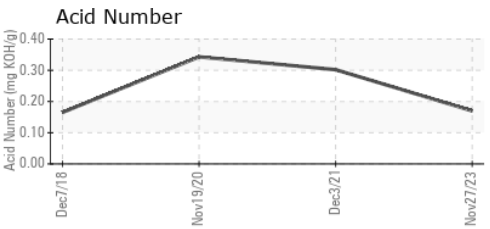
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0874236 **Received** : 06 Dec 2023
Lab Number : 06026637 **Diagnosed** : 12 Dec 2023
Unique Number : 10776428 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

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)

FS-COMPRESSION CO, LLC
203 AERO COURT
GREENSBORO, NC
US 27409
Contact: Dallas Burcham
dallas.burcham@fs-compression.com
T: (336)605-9622
F: (336)605-9844