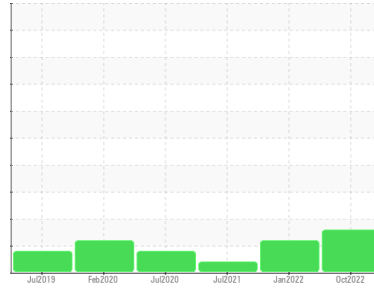




PROBLEM SUMMARY

Sample Rating Trend



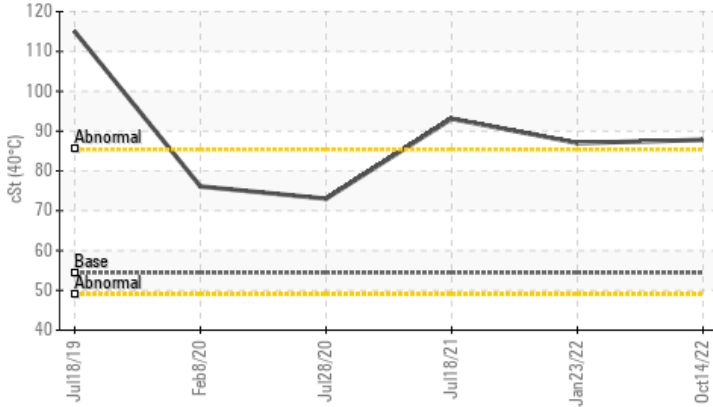
VISCOSITY



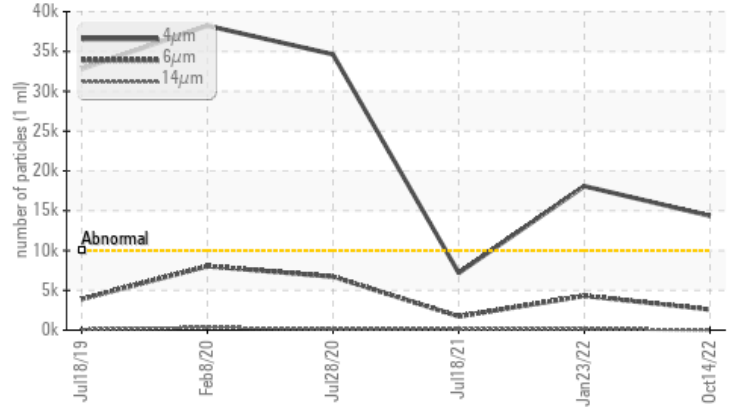
Machine Id
#7 NH3 Compressor
 Component
Screw Compressor
 Fluid
NOCO NOCOCHILL OIL ISO 68 (700 LTR)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL	
Particles >4µm	ASTM D7647	>10000	▲ 14349	▲ 18088	7183	
Particles >6µm	ASTM D7647	>2500	▲ 2588	▲ 4310	1723	
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 21/19/13	▲ 21/19/14	20/18/14	
Visc @ 40°C	cSt	ASTM D7279(m)	54.4	▲ 87.8	▲ 87.0	▲ 93.1

Customer Id: MOLETO
 Sample No.: PP
 Lab Number: 02518370
 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
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

23 Jan 2022 Diag: Kevin Marson

VISCOSITY



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



18 Jul 2021 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



28 Jul 2020 Diag: Kevin Marson

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The water content is negligible. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

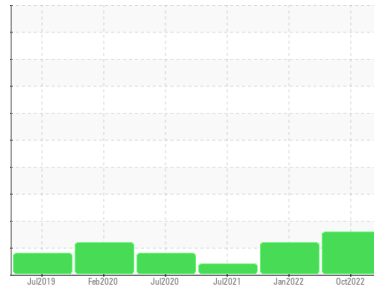
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
#7 NH3 Compressor
 Component
Screw Compressor
 Fluid
NOCO NOCOCHILL OIL ISO 68 (700 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. NOTE: The color of the oil is darker then previous samples.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP	PP	PP
Sample Date	Client Info	14 Oct 2022	23 Jan 2022	18 Jul 2021
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >60	2	2	2
Chromium	ppm	ASTM D5185(m) >4	0	0	0
Nickel	ppm	ASTM D5185(m)	<1	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >5	0	0	0
Lead	ppm	ASTM D5185(m) >10	0	<1	<1
Copper	ppm	ASTM D5185(m) >30	0	<1	<1
Tin	ppm	ASTM D5185(m) >15	0	<1	<1
Antimony	ppm	ASTM D5185(m)	<1	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)	0	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	<1
Calcium	ppm	ASTM D5185(m)	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	0	<1	<1
Zinc	ppm	ASTM D5185(m)	1	<1	<1
Sulfur	ppm	ASTM D5185(m)	156	151	195
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >50	3	3	1
Sodium	ppm	ASTM D5185(m)	0	0	0
Potassium	ppm	ASTM D5185(m) >20	0	<1	<1
Water	%	ASTM D6304* >0.1	0.00	0.001	0.001
ppm Water	ppm	ASTM D6304* >1000	0.00	14.2	10.2

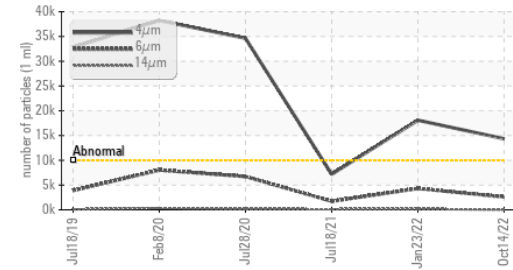
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 14349	▲ 18088	7183
Particles >6µm	ASTM D7647 >2500	▲ 2588	▲ 4310	1723
Particles >14µm	ASTM D7647 >320	42	154	114
Particles >21µm	ASTM D7647 >80	6	22	30
Particles >38µm	ASTM D7647 >20	0	0	3
Particles >71µm	ASTM D7647 >4	0	0	1
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 21/19/13	▲ 21/19/14	20/18/14

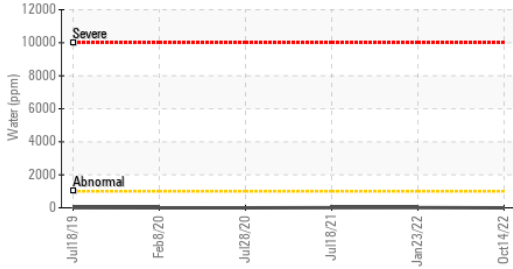


OIL ANALYSIS REPORT

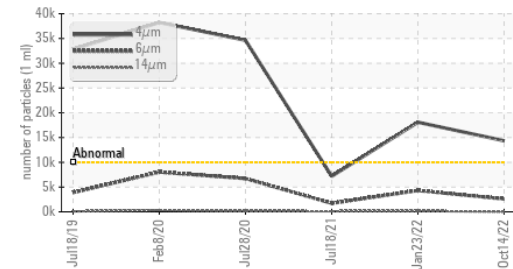
Particle Trend



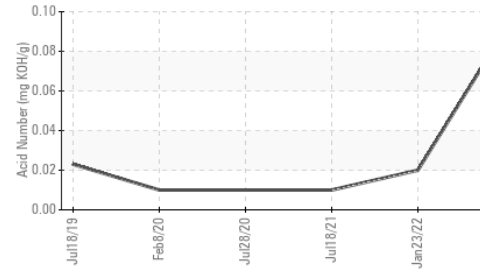
Water (KF)



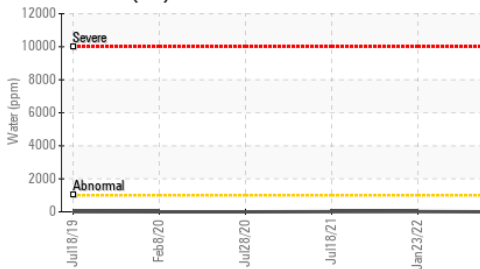
Particle Trend



Acid Number



Water (KF)



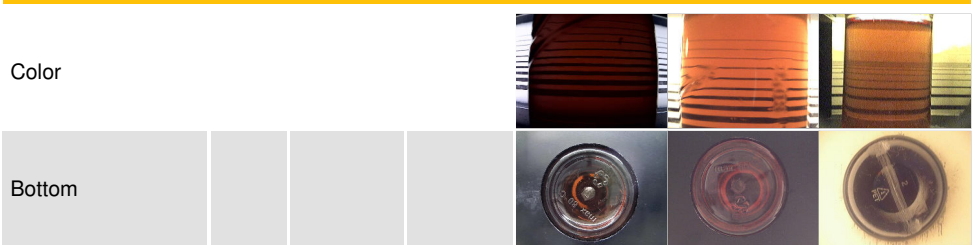
FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN) mg KOH/g	ASTM D974*	0.09	0.02	0.01		
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	LIGHT	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	AMMON
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES

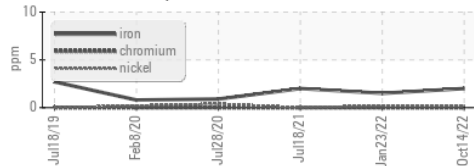
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	87.8	87.0	93.1

SAMPLE IMAGES

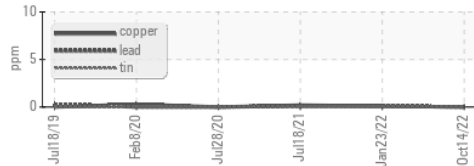


GRAPHS

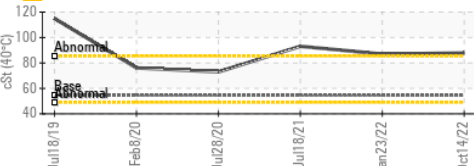
Ferrous Alloys



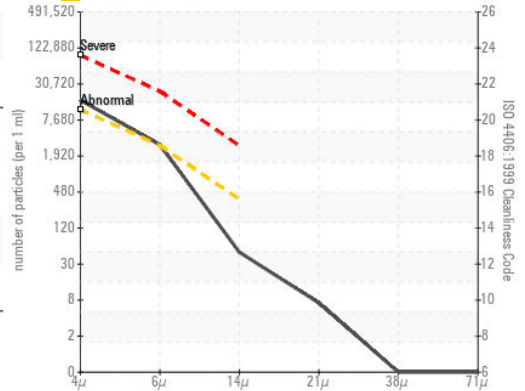
Non-ferrous Metals



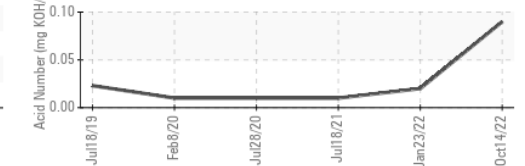
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02518370
Unique Number : 5475350
Test Package : IND 2 (Additional Tests: KF, TAN Man)

MOLSON TORONTO
 1 CARLINGVIEW DRIVE
 TORONTO, ON
 CA M9W 5E5
 Contact: Brian Goddard
 brian.goddard@molsoncoors.com

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.

T:
F: