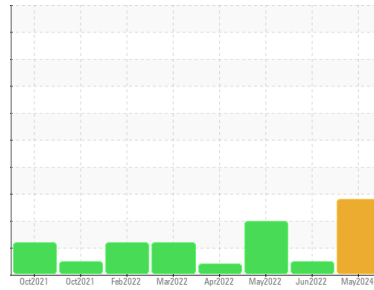


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**SC-7 (S/N 390-004050-005)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

- Recommendation**  
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.
- Wear**  
An increase in the iron level is noted. All other component wear rates are normal.
- Contamination**  
There is a high amount of particulates present in the oil.
- Fluid Condition**  
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO40000365</b>	TO405576945	TO40000106
Sample Date	Client Info		<b>10 May 2024</b>	21 Jun 2022	13 May 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>8</b>	<1	<1
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >2	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	9	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>0</b>	23	<1
Phosphorus	ppm	ASTM D5185m	<b>0</b>	10	4
Zinc	ppm	ASTM D5185m	<b>0</b>	7	0
Sulfur	ppm	ASTM D5185m	<b>0</b>	115	56

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	<1	3
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.01	<b>0.001</b>	0.003	0.003
ppm Water	ppm	ASTM D6304 >100	<b>13</b>	35.3	39.1

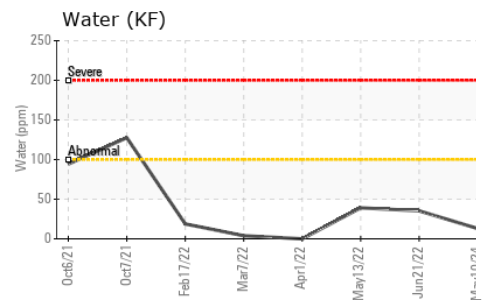
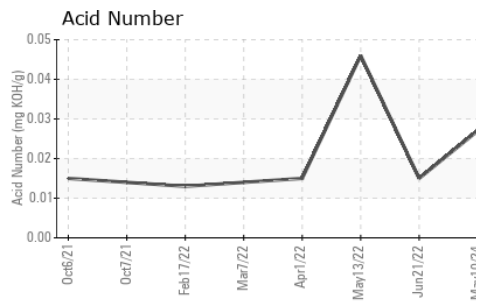
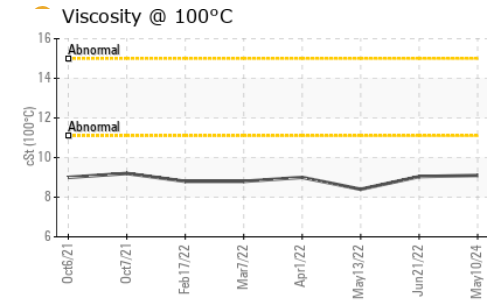
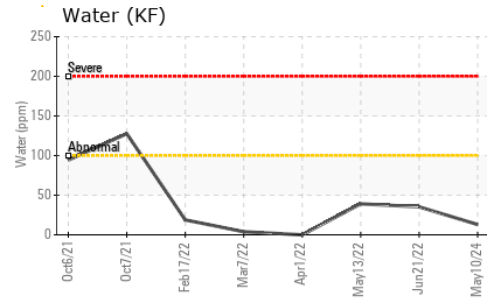
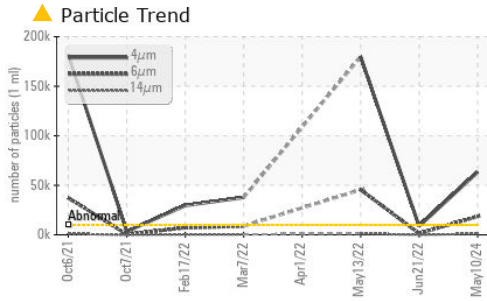
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>63277</b>	8684	179742
Particles >6µm	ASTM D7647	>2500	<b>18489</b>	1406	45465
Particles >14µm	ASTM D7647	>320	<b>936</b>	34	1127
Particles >21µm	ASTM D7647	>80	<b>141</b>	9	235
Particles >38µm	ASTM D7647	>20	<b>1</b>	0	2
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>23/21/17</b>	20/18/12	25/23/17

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	<b>0.027</b>	0.015	0.046

# OIL ANALYSIS REPORT

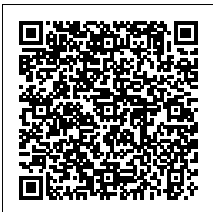
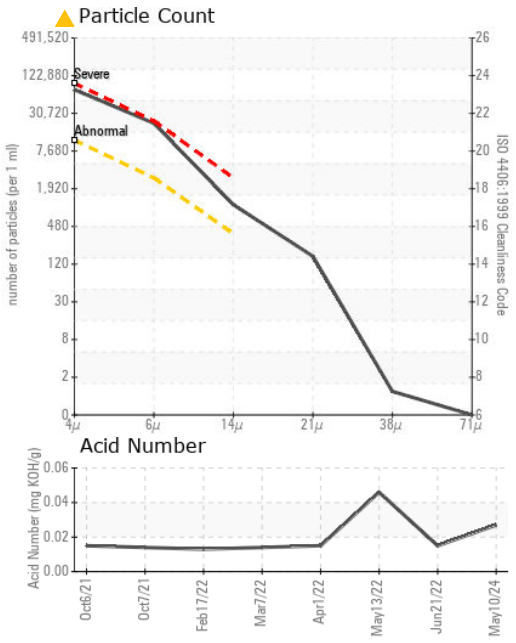
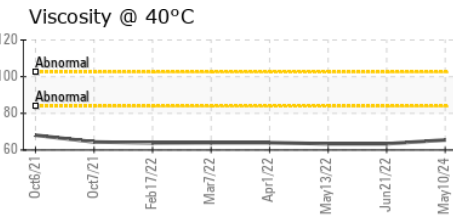
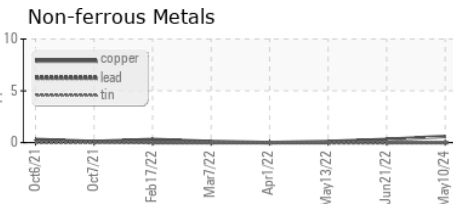
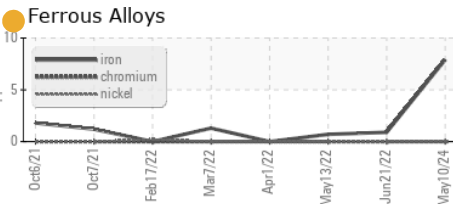


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
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 D445	65.48	63.4	63.4
Visc @ 100°C	cSt	ASTM D445	9.1	9.04	8.4
Viscosity Index (VI)	Scale	ASTM D2270	115	118	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO40000365  
**Lab Number** : 06182930  
**Unique Number** : 11034256  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**FRESH EXPRESS - MORROW**  
 1361 SOUTHERN ROAD  
 MORROW, GA  
 US 30260

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: FERNANDO VILLASENOR  
 fvillasenor@freshexpress.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (678)422-4080

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: