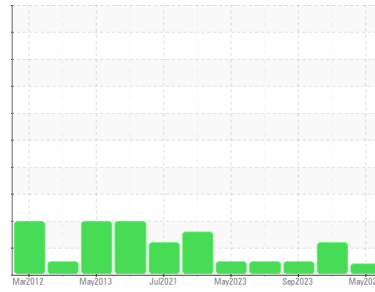




OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
FES NH3 - OER-B3 OK19030 (S/N 3211466)
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (200 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USP242781	USP0003610	USP242807
Sample Date	Client Info	29 May 2024	19 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m	0	1
Calcium	ppm	ASTM D5185m	0	1
Phosphorus	ppm	ASTM D5185m	0	1
Zinc	ppm	ASTM D5185m	3	0
Sulfur	ppm	ASTM D5185m 50	30	15

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1
Sodium	ppm	ASTM D5185m	<1	<1
Potassium	ppm	ASTM D5185m >20	0	2
Water	%	ASTM D6304 >0.01	0.003	0.001
ppm Water	ppm	ASTM D6304 >100	34	14.7

FLUID CLEANLINESS

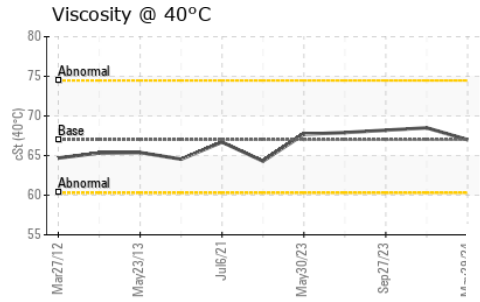
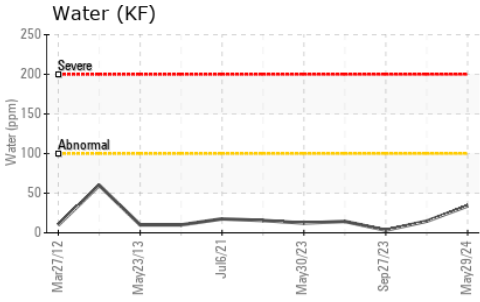
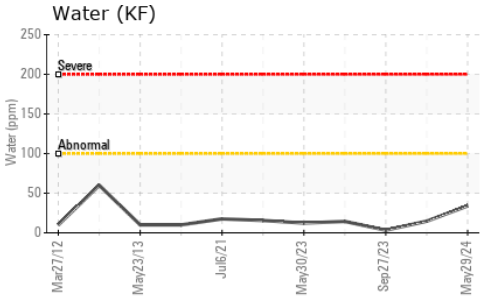
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	---	● 11574	2272
Particles >6µm	ASTM D7647 >2500	---	● 2855	762
Particles >14µm	ASTM D7647 >320	---	82	42
Particles >21µm	ASTM D7647 >80	---	10	7
Particles >38µm	ASTM D7647 >20	---	0	1
Particles >71µm	ASTM D7647 >4	---	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	---	● 21/19/14	18/17/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.005	0.013	0.015



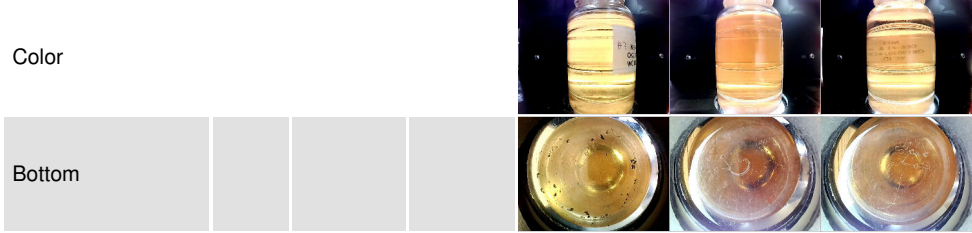
OIL ANALYSIS REPORT



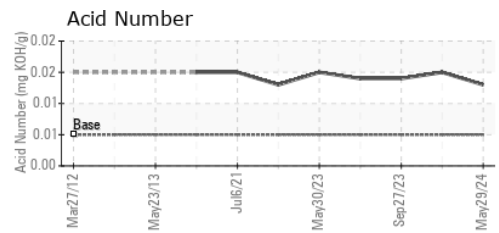
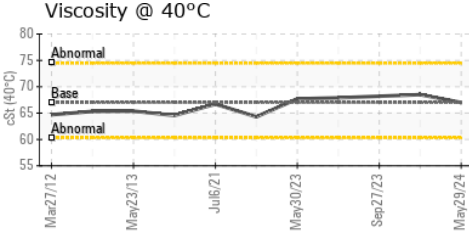
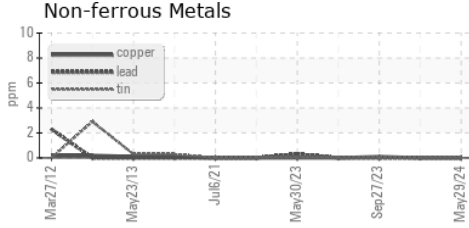
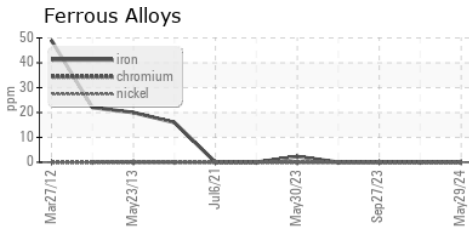
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 67	67.0	68.5	68.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP242781 **Received** : 30 May 2024
Lab Number : **06195944** **Tested** : 02 Jun 2024
Unique Number : 11058067 **Diagnosed** : 02 Jun 2024 - Doug Bogart
Test Package : IND 2

SCHWANS BAKERY
 5 EAST WALNUT
 STILWELL, OK
 US 74960
 Contact: DENNIS LONGSHORE

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)

T: (918)696-8296

F: