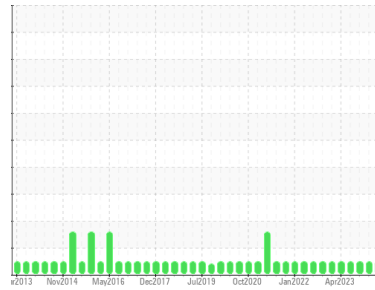




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
FES TYSNRH B105 (S/N 2512595)
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

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	USP0006745	USP0004982	USP0001221
Sample Date	Client Info	11 Apr 2024	15 Jan 2024	15 Oct 2023
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

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

ADDITIVES

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

CONTAMINANTS

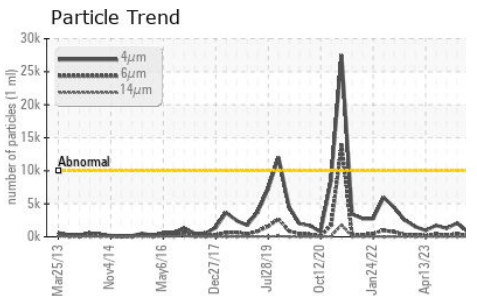
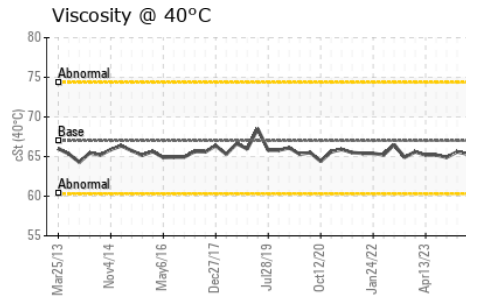
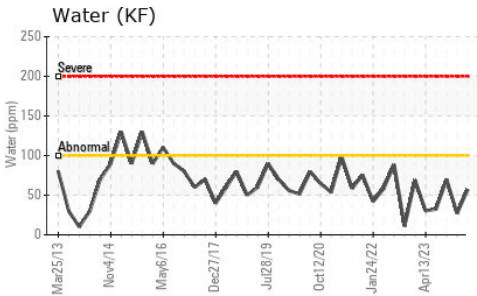
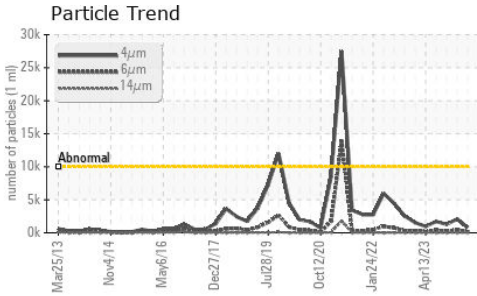
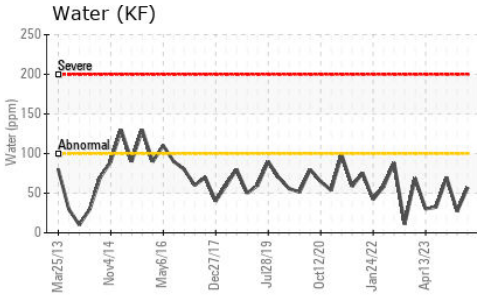
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	3	3	2
Sodium ppm ASTM D5185m		0	0	0
Potassium ppm ASTM D5185m	>20	<1	0	<1
Water % ASTM D6304	>0.01	0.005	0.003	0.007
ppm Water ppm ASTM D6304	>100	57	27	70.0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	821	2068	1277
Particles >6µm ASTM D7647	>2500	187	475	243
Particles >14µm ASTM D7647	>320	12	24	11
Particles >21µm ASTM D7647	>80	4	4	3
Particles >38µm ASTM D7647	>20	0	0	0
Particles >71µm ASTM D7647	>4	0	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/15	17/15/11	18/16/12	17/15/11

FLUID DEGRADATION

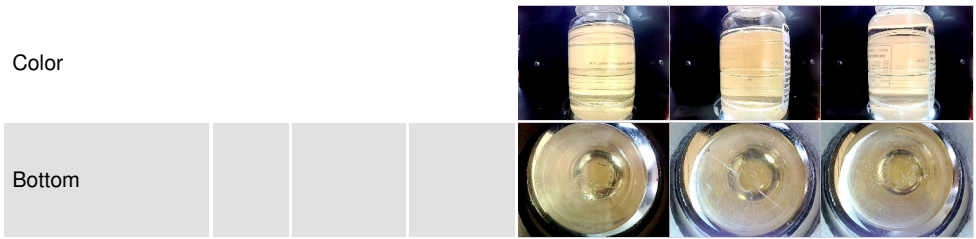
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974	0.005	0.014	0.014	0.013



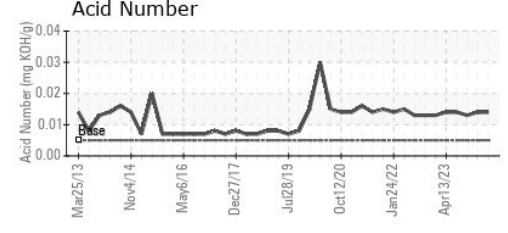
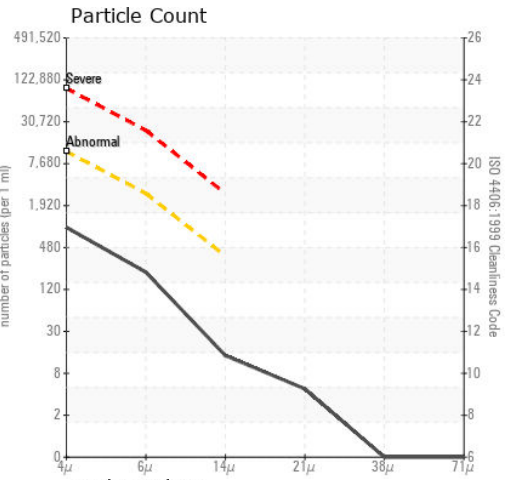
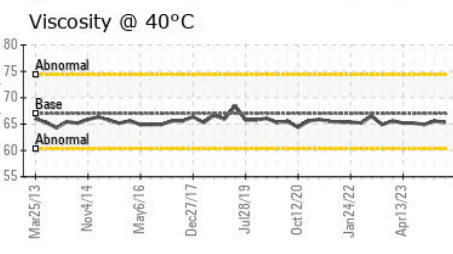
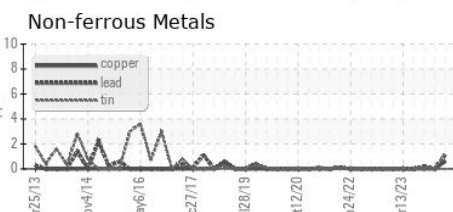
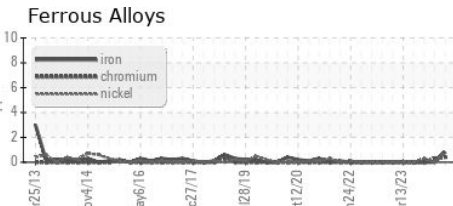
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	65.3	65.6	64.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP006745 **Received** : 12 Apr 2024
Lab Number : 06147369 **Tested** : 15 Apr 2024
Unique Number : 10977447 **Diagnosed** : 15 Apr 2024 - Doug Bogart
Test Package : IND 2

TYSON-NORTH RICHLAND HILLS-USP
 6350 BLOWN CT
 NORTH RICHLAND HILLS, TX
 US 76180
 Contact: JOHN MORGAN

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)

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