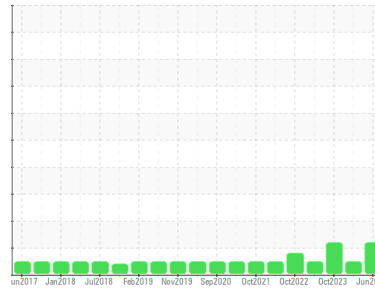




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
28 (S/N 1620R)
 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 a high amount of silt (particulates < 14 microns in size) 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	USP0013357	USP0007458	USP0003132
Sample Date	Client Info	11 Jun 2024	04 Mar 2024	22 Oct 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	NORMAL	ATTENTION

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	<1
Titanium	ppm	ASTM D5185m	0	<1
Silver	ppm	ASTM D5185m >2	0	0
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	<1
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	1
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	0
Zinc	ppm	ASTM D5185m	0	0
Sulfur	ppm	ASTM D5185m 50	<1	0
			0	7

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	0
Sodium	ppm	ASTM D5185m	0	0
Potassium	ppm	ASTM D5185m >20	1	0
Water	%	ASTM D6304 >0.01	0.008	0.001
ppm Water	ppm	ASTM D6304 >100	81	0
			0	60.5

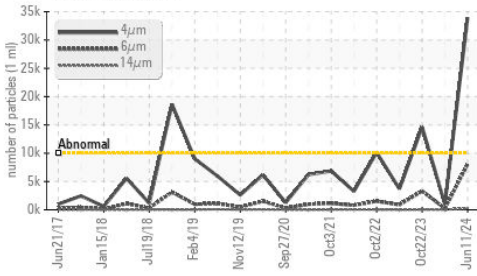
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 33927	1027	● 14615
Particles >6µm	ASTM D7647 >2500	▲ 8078	255	● 3314
Particles >14µm	ASTM D7647 >320	225	22	49
Particles >21µm	ASTM D7647 >80	26	5	8
Particles >38µm	ASTM D7647 >20	1	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 22/20/15	17/15/12	● 21/19/13

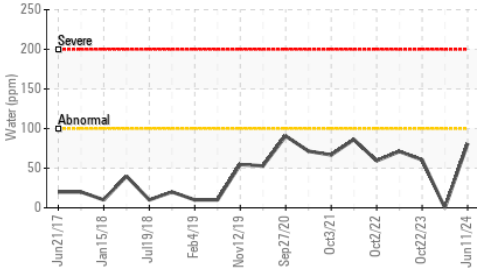
FLUID DEGRADATION

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

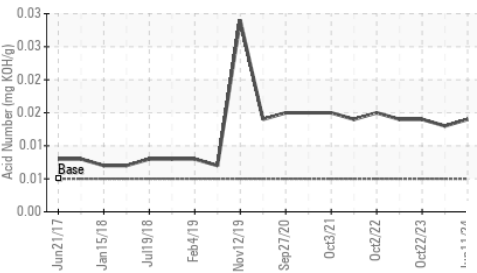
Particle Trend



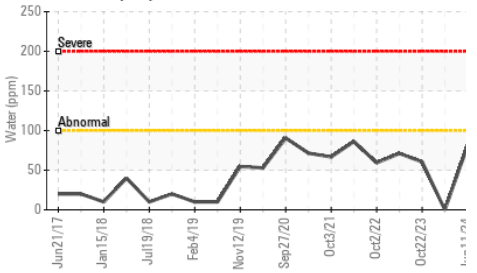
Water (KF)



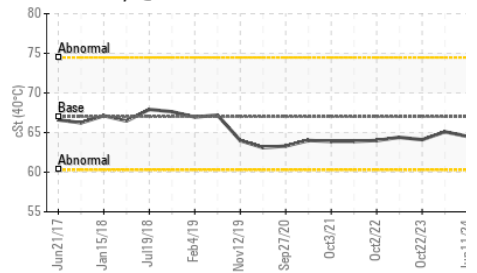
Acid Number



Water (KF)



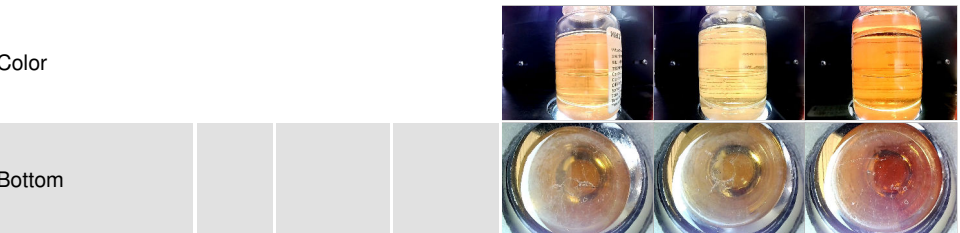
Viscosity @ 40°C



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

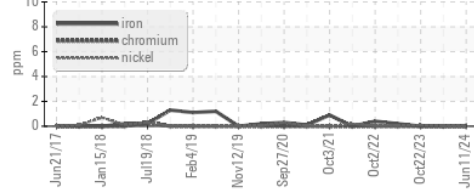
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	64.5	65.1

SAMPLE IMAGES

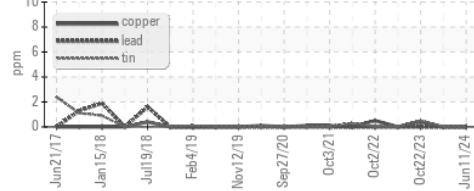


GRAPHS

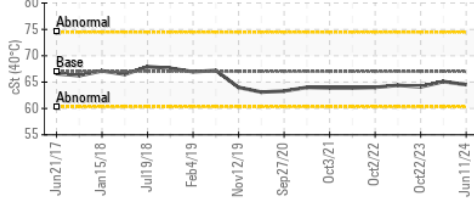
Ferrous Alloys



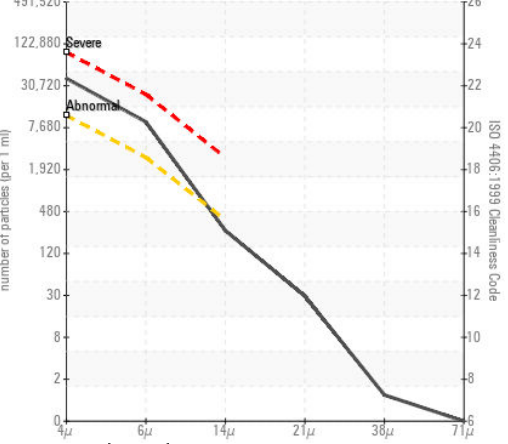
Non-ferrous Metals



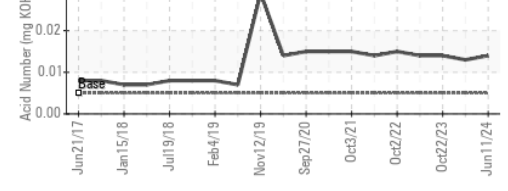
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0013357
Lab Number : 06208289
Unique Number : 11075750
Test Package : IND 2

TYSON HILLSHIRE - NEW LONDON
 N3620 COUNTY RD D
 NEW LONDON, WI
 US 54961
 Contact:

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:
F: