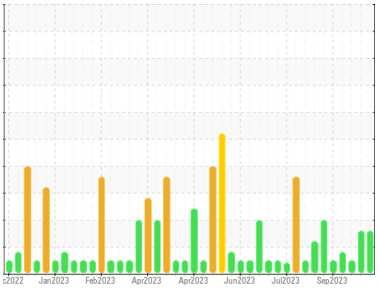
PROBLEM SUMMARY

Sample Rating Trend

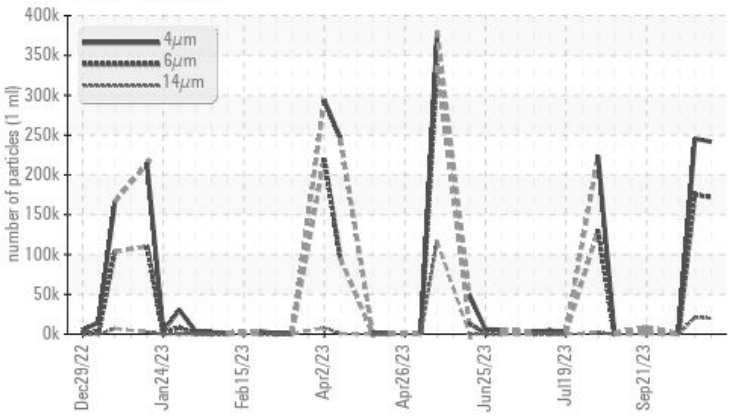


ISO

Machine Id
TYSLOG RECYCLED NH3
Component
Refrigeration Compressor
Fluid
USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

This is a baseline read-out on the submitted sample.
BARREL 1 BEFORE FILTERING

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	NORMAL
Particles >6µm		ASTM D7647	>2500	▲ **171913**	▲ 175080	166
Particles >14µm		ASTM D7647	>320	▲ **19840**	▲ 20930	12
Particles >21µm		ASTM D7647	>80	▲ **2138**	▲ 2485	4
Oil Cleanliness		ISO 4406 (c)	>--/18/15	▲ **25/25/21**	▲ 25/25/22	17/15/11

Customer Id: TYSLOG
Sample No.: USP0002893
Lab Number: 05994449
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

29 Oct 2023 Diag: Doug Bogart

ISO

This is a baseline read-out on the submitted sample. BARREL 23 BEFORE FILTERING There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

16 Oct 2023 Diag: Doug Bogart

NORMAL

This is a baseline read-out on the submitted sample. BARREL 21 AFTER There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

view report

15 Oct 2023 Diag: Doug Bogart

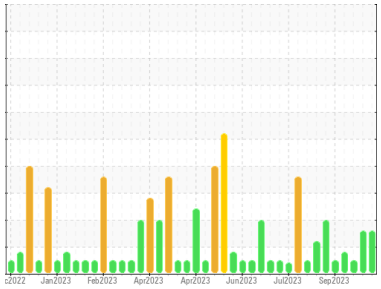
SEDIMENT

This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. BARREL 22 BEFORE There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
TYSLOG RECYCLED NH3
Component
Refrigeration Compressor
Fluid
USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. BARREL 1 BEFORE FILTERING

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0002893**	USP0002892	USP248389
Sample Date		Client Info		**30 Oct 2023**	29 Oct 2023	16 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				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	**11**	11	0
Chromium	ppm	ASTM D5185m	>2	**<1**	<1	0
Nickel	ppm	ASTM D5185m		**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>3	**0**	0	0
Lead	ppm	ASTM D5185m	>2	**0**	0	<1
Copper	ppm	ASTM D5185m	>8	**<1**	<1	0
Tin	ppm	ASTM D5185m	>4	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	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		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**0**	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	**7**	7	0

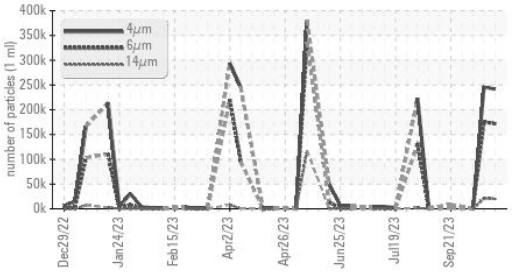
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**1**	1	0
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Water	%	ASTM D6304	>0.01	**0.003**	0.004	0.002
ppm Water	ppm	ASTM D6304	>100	**31.7**	48.0	23.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**241777**	245505	709
Particles >6µm		ASTM D7647	>2500	▲ **171913**	▲ 175080	166
Particles >14µm		ASTM D7647	>320	▲ **19840**	▲ 20930	12
Particles >21µm		ASTM D7647	>80	▲ **2138**	▲ 2485	4
Particles >38µm		ASTM D7647	>20	**3**	6	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/15	▲ **25/25/21**	▲ 25/25/22	17/15/11

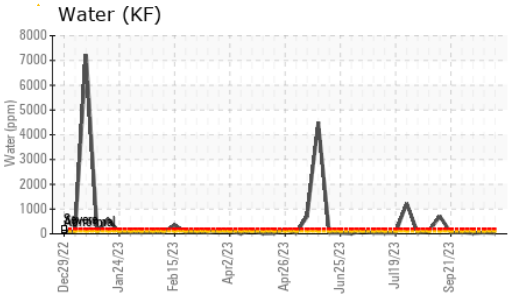
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	**0.012**	0.015	0.016

OIL ANALYSIS REPORT

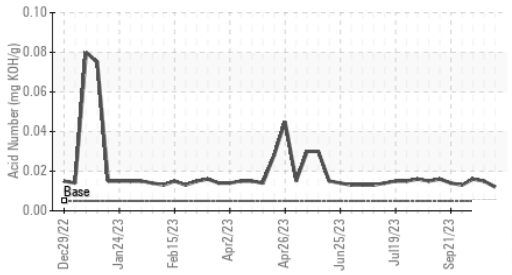
Particle Trend



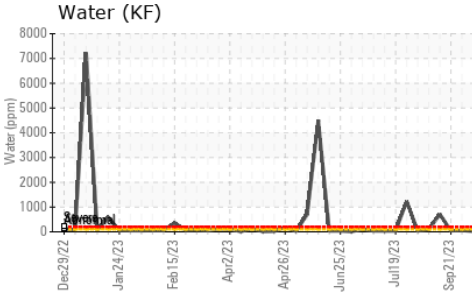
Water (KF)



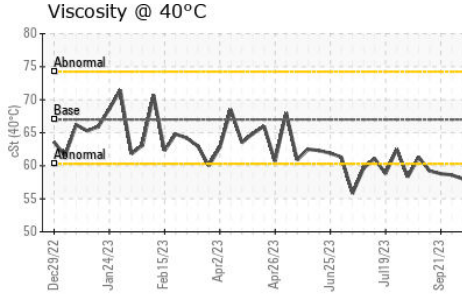
Acid Number



Water (KF)



Viscosity @ 40°C



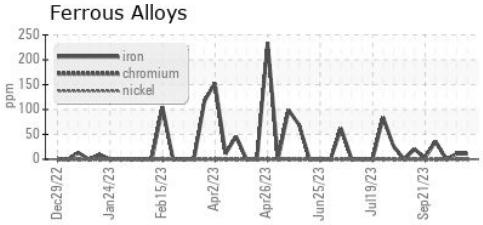
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	**58.69**	62.82	58.0

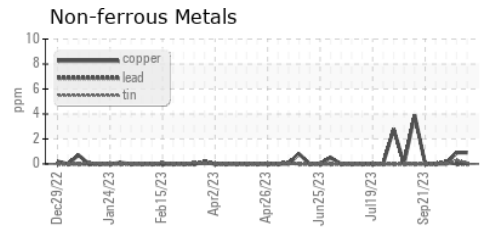
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

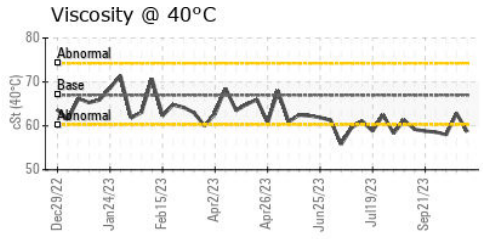
Ferrous Alloys



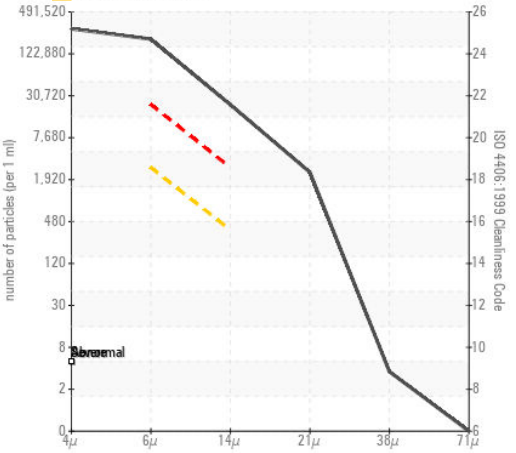
Non-ferrous Metals



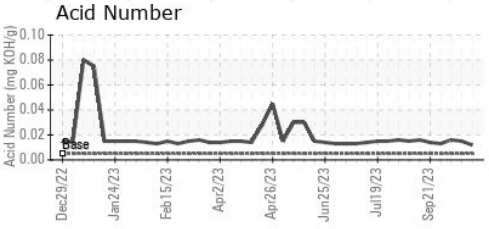
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0002893
Lab Number : 05994449
Unique Number : 10722809
Test Package : IND 2

Received : 31 Oct 2023
Diagnosed : 02 Nov 2023
Diagnostician : Doug Bogart

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)

TYSON-LOGANSPORT-USP

LOGANSPORT, IN
US
Contact: RICK DUVAL

T: (402)423-6375
F: (402)423-6661