



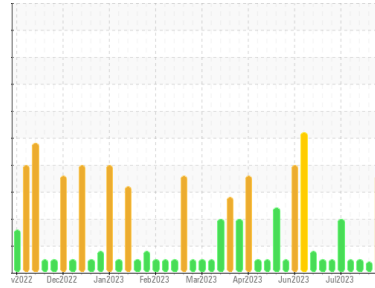
PROBLEM SUMMARY

Sample Rating Trend

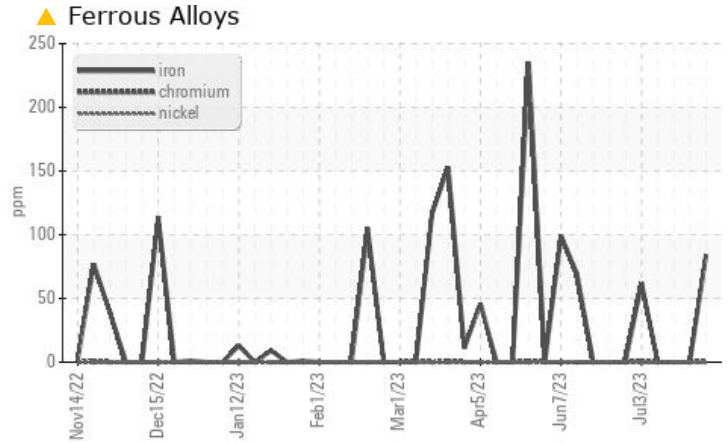
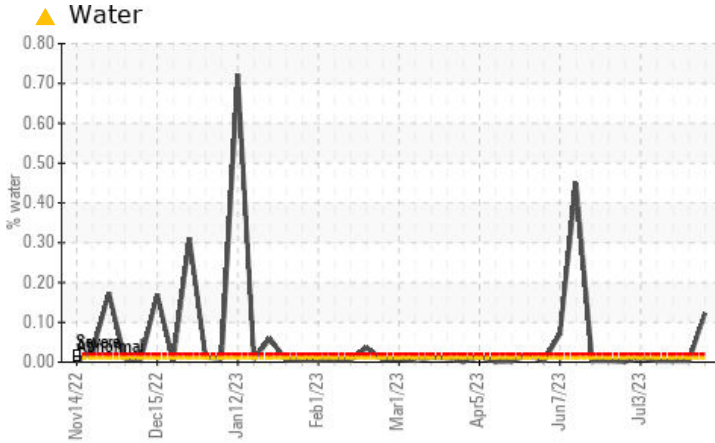
WATER



Area
[BARREL 12 BEFORE]
 Machine Id
TYSLOG RECYCLED NH3
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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 12 BEFORE

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>8	▲ 84	0	0
Water	%	ASTM D6304	>0.01	▲ 0.123	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	▲ 1230	36.0	34.2
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	▲ 0.2%	NEG	NEG

Customer Id: **TYSLOG**
 Sample No.: **USP248378**
 Lab Number: **05928366**
 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

Action	Status	Date	Done By	Description
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

19 Jul 2023 Diag: Doug Bogart

VISCOSITY



This is a baseline read-out on the submitted sample. BARREL 1 ALREADY FILTERED 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](#)



18 Jul 2023 Diag: Doug Bogart

NORMAL



This is a baseline read-out on the submitted sample. BARREL 4 AFTER 2ND FILTERING There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



12 Jul 2023 Diag: Doug Bogart

NORMAL



This is a baseline read-out on the submitted sample. BARREL 7 AFTER FILTERING There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

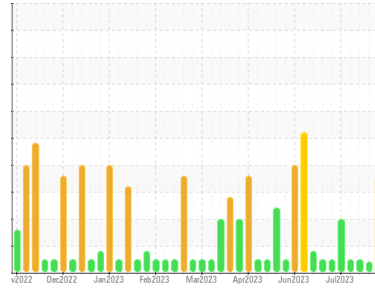
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[BARREL 12 BEFORE]
 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. We were unable to perform a particle count due to a high concentration of particles present in this sample. BARREL 12 BEFORE

Wear

The iron level is abnormal.

Contamination

Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP248378	USP249297	USP248388
Sample Date	Client Info		19 Aug 2023	19 Jul 2023	18 Jul 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	ATTENTION	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	▲ 84	0	0
Chromium	ppm	ASTM D5185m >2	<1	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >3	0	0	<1
Lead	ppm	ASTM D5185m >2	0	0	0
Copper	ppm	ASTM D5185m >8	0	0	0
Tin	ppm	ASTM D5185m >4	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	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	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	<1	0	0
Calcium	ppm	ASTM D5185m	1	1	0
Phosphorus	ppm	ASTM D5185m	0	<1	0
Zinc	ppm	ASTM D5185m	3	0	0
Sulfur	ppm	ASTM D5185m 50	0	11	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	0	0	<1
Water	%	ASTM D6304 >0.01	▲ 0.123	0.003	0.003
ppm Water	ppm	ASTM D6304 >100	▲ 1230	36.0	34.2

FLUID CLEANLINESS

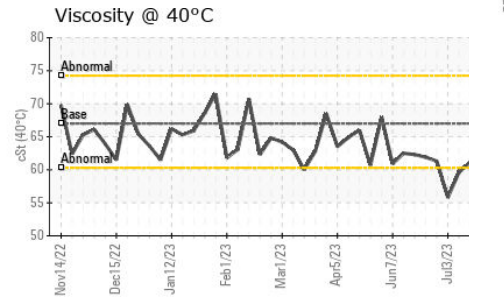
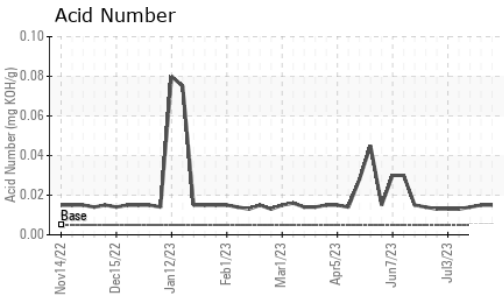
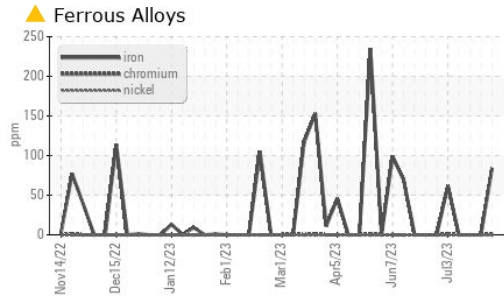
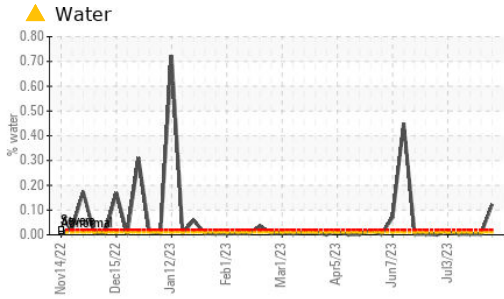
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	2171	4608
Particles >6µm	ASTM D7647	>2500	---	902	1199
Particles >14µm	ASTM D7647	>320	---	39	29
Particles >21µm	ASTM D7647	>80	---	5	2
Particles >38µm	ASTM D7647	>20	---	0	0
Particles >71µm	ASTM D7647	>4	---	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/15	---	18/17/12	19/17/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.005	0.015	0.015	0.014



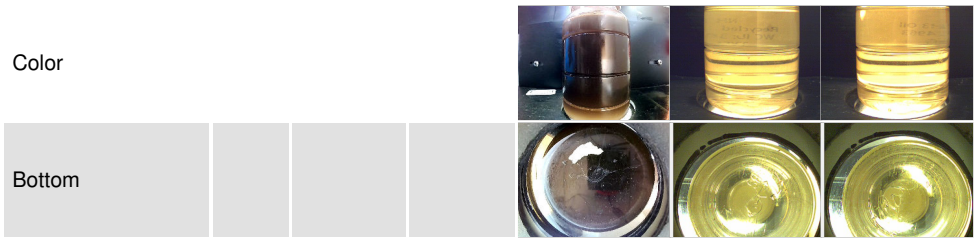
OIL ANALYSIS REPORT



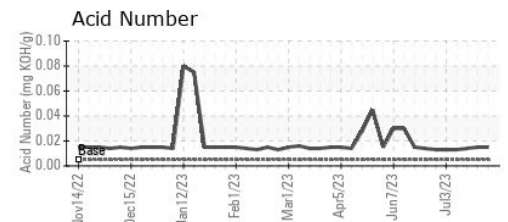
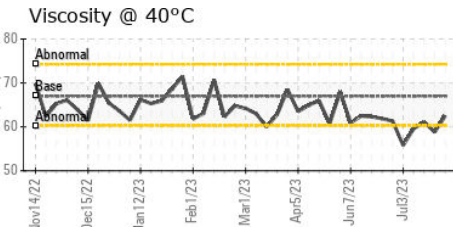
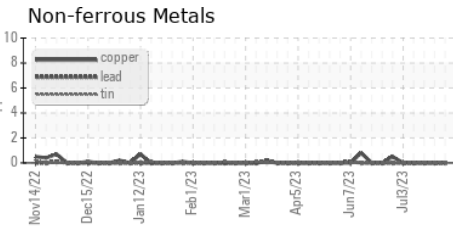
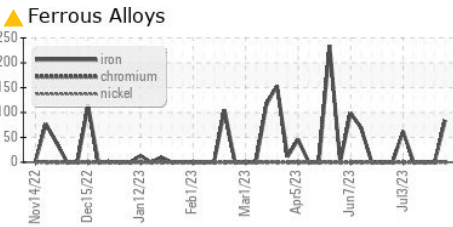
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	▲ HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	▲ 0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 67	62.5	▲ 58.8	61.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP248378 **Received** : 18 Aug 2023
Lab Number : 05928366 **Diagnosed** : 21 Aug 2023
Unique Number : 10608313 **Diagnostician** : Doug Bogart
Test Package : IND 2

TYSON-LOGANSPORT-USP
 LOGANSPORT, IN
 US
 Contact: RICK DUVAL

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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