

PROBLEM SUMMARY

Sample Rating Trend



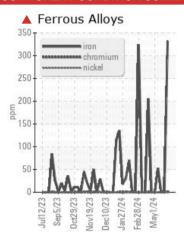
Machine Id

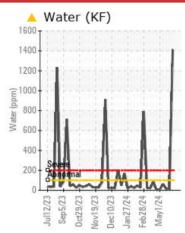
TYSLOG RECYCLED NH3 (S/N M902820A)

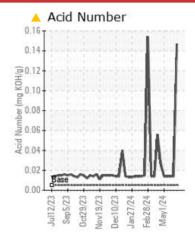
Refrigeration Compressor

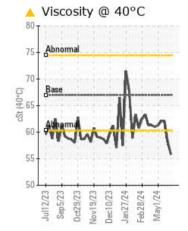
USPI 1009-68 SC (--- GAL)

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 6 BEFORE FILTRATION

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ATTENTION	NORMAL	
Iron	ppm	ASTM D5185m	>8	▲ 332	<1	0	
Water	%	ASTM D6304	>0.01	△ 0.141	0.001	0.002	
ppm Water	ppm	ASTM D6304	>100	<u> </u>	9	16	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.147	0.014	0.014	
Silt	scalar	*Visual	NONE	MODER	NONE	NONE	
Debris	scalar	*Visual	NONE	MODER	NONE	NONE	
Emulsified Water	scalar	*Visual	>0.01	0.2%	NEG	NEG	
Visc @ 40°C	cSt	ASTM D445	67	△ 55.8	58.2	62.1	

Customer Id: TYSLOG Sample No.: USP0012486 Lab Number: 06203424 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

02 Jun 2024 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. BARREL 5 AFTER FILTERING 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.



This





This is a baseline read-out on the submitted sample. BARREL 33 AFTER There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



09 May 2024 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. BARREL 5 BEFORE FILTThe iron level is abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.







OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TYSLOG RECYCLED NH3 (S/N M902820A)

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 6 BEFORE FILTRATION

Wear

The iron level is severe.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

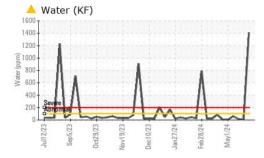
Fluid Condition

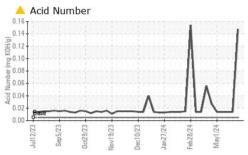
The oil viscosity is lower than normal. The AN level is at the top-end of the recommended limit.

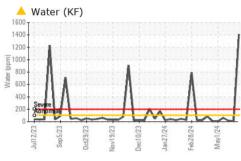
2023 Smp2023 Occ5023 Nov2023 Om2023 Jun2024 Feb2024 Mmp2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012486	USP0012695	USP0012751
Sample Date		Client Info		06 Jun 2024	02 Jun 2024	28 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	332	<1	0
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	2	1	0
Lead	ppm	ASTM D5185m	>2	<1	<1	0
Copper	ppm	ASTM D5185m	>8	4	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<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	<1	0
Manganese	ppm	ASTM D5185m		<1	0	<1
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		5	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	1	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	2	1
Water	%	ASTM D6304	>0.01	<u> </u>	0.001	0.002
ppm Water	ppm	ASTM D6304	>100	1410	9	16
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647			1604	1813
Particles >6µm		ASTM D7647	>2500		419	398
Particles >14μm		ASTM D7647	>320		18	16
Particles >21µm		ASTM D7647	>80		4	4
Particles >38µm		ASTM D7647	>20		0	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15		18/16/11	18/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.147	0.014	0.014

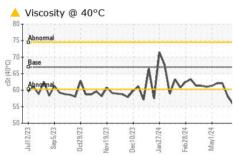


OIL ANALYSIS REPORT









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	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

I LOID I HOI LITTILO		method	IIIIII Dase	Current	History	HISTOLYZ	
Visc @ 40°C	cSt	ASTM D445	67	△ 55.8	58.2	62.1	

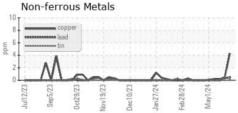
SAMPLE IMAGES

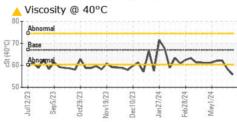
Color

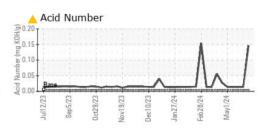
Bottom

GRAPHS

Ferrous Alloys E 200 100











Laboratory Sample No.

Lab Number : 06203424 Unique Number : 11070885

: USP0012486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024

Tested : 11 Jun 2024 Diagnosed : 11 Jun 2024 - Doug Bogart

LOGANSPORT, IN US Contact: RICK DUVAL

T: (402)423-6375

F: (402)423-6661

TYSON-LOGANSPORT-USP

Certificate 12367

Test Package : IND 2 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)