

PROBLEM SUMMARY

Sample Rating Trend

WATER

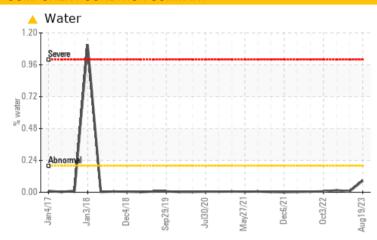
TYSDAKPRO GEA MAIN CHAIN (S/N XJF120L0936FF)

Component

Gearbox

USPI FG GEAR 220 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC 1	EST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Water	%	ASTM D6304	>0.2	△ 0.087	0.007	0.015
ppm Water	ppm	ASTM D6304	>2000	▲ 870	77.0	153.3
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT
Appearance	scalar	*Visual	NORML	MODER	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		1.0	NEG	NEG

Customer Id: IBPDAK01 Sample No.: USPM29261 Lab Number: 05928316 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
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

11 May 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.



26 Jan 2023 Diag: Jonathan Hester

ISO



Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

03 Oct 2022 Diag: Doug Bogart

NORMAL



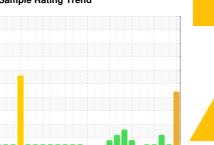
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id

TYSDAKPRO GEA MAIN CHAIN (S/N XJF120L0936FF)

Component

Gearbox

USPI FG GEAR 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

		in2017 Jan20	18 Dec2018 Sep2019	Jul2020 May2021 Dec2021 Oct	2022 Aug20;	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29261	USPM28873	USPM26211
Sample Date		Client Info		19 Aug 2023	11 May 2023	26 Jan 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	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	66	<1	21
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	0	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	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	<1	<1
Magnesium	ppm	ASTM D5185m		1	10	0
Calcium	ppm	ASTM D5185m		2	0	2
Phosphorus	ppm	ASTM D5185m		218	231	251
Zinc	ppm	ASTM D5185m		4	11	19
Sulfur	ppm	ASTM D5185m		6848	7866	7044
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	<1	3
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water	%	ASTM D6304	>0.2	△ 0.087	0.007	0.015
ppm Water	ppm	ASTM D6304	>2000	<u>▲</u> 870	77.0	153.3
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		11668	<u> </u>
Particles >6µm		ASTM D7647	>5000		2244	<u>\$\text{25550}\$</u>
Particles >14μm		ASTM D7647	>640		70	547
Particles >21µm		ASTM D7647	>160		11	75
Particles >38µm		ASTM D7647	>40		1	3
Particles >71µm		ASTM D7647	>10		0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16		21/18/13	<u>4</u> 24/22/16
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Asid Number (AN)	ma 1/011/a	ACTM DODAE		0.54	0.56	0.56

Acid Number (AN)

mg KOH/g ASTM D8045

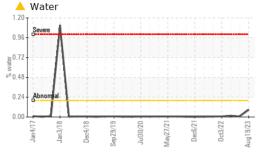
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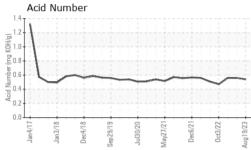
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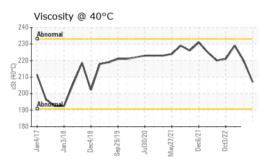
0.56



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	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ MODER	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG

FLUID PROPER	RTIES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D445		207	220	229

SAMPLE IMAGES

method

limit/base

current

history1

history2

Color

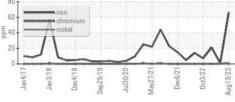
Bottom

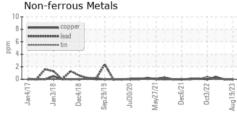


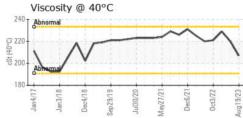


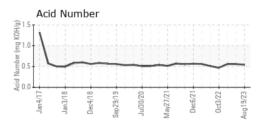
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM29261 : 05928316

: 10608263

Received : 18 Aug 2023 : 22 Aug 2023 Diagnosed

Diagnostician : Doug Bogart

DAKOTA CITY, NE

Contact: RICHARD KOCH

TYSON-DAKOTA CITY-USP

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)

Contact/Location: RICHARD KOCH - IBPDAK01

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