

PROBLEM SUMMARY

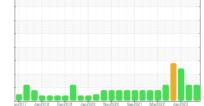
Sample Rating Trend



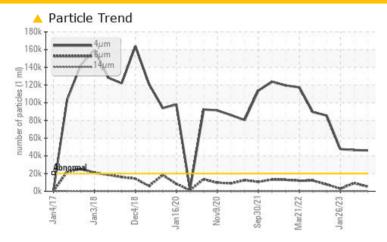
TYSDAKPRO GEA TRANSFER CHAIN (S/N XJF120L0936FF)

Component **Gearbox**

USPI FG GEAR 220 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL			
Particles >4µm	ASTM D7647	>20000	46149	<u>▲</u> 46522	△ 47629			
Particles >6µm	ASTM D7647	>5000	5236	<u>\$\text{9235}\$</u>	2918			
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/20/13	23/20/14	23/19/11			

Customer Id: IBPDAK01 Sample No.: USPM29239 Lab Number: 05928320 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

11 May 2023 Diag: Doug Bogart

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.



26 Jan 2023 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. Free water present. The AN level is acceptable for this fluid.



03 Oct 2022 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. 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. Free water present. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TYSDAKPRO GEA TRANSFER CHAIN (S/N XJF120L0936FF)

Component

Gearbox

USPI FG GEAR 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

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.

m2017 Jan2018 Dac2016 Jan2020 Nov2020 Sep2021 Mac2022 Jan2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USPM29239	USPM28876	USPM26214	
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	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	5	3	9	
Chromium	ppm	ASTM D5185m	>15	0	<1	0	
Nickel	ppm	ASTM D5185m	>15	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		<1	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1	
Lead	ppm	ASTM D5185m	>100	0	0	0	
Copper	ppm	ASTM D5185m	>200	0	0	0	
Tin	ppm	ASTM D5185m	>25	0	<1	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		0	<1	0	
Magnesium	ppm	ASTM D5185m		2	10	0	
Calcium	ppm	ASTM D5185m		1	0	0	
Phosphorus	ppm	ASTM D5185m		215	234	229	
Zinc	ppm	ASTM D5185m		5	10	2	
Sulfur	ppm	ASTM D5185m		7370	7840	7237	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<1	1	<1	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	4	0	
Water	%	ASTM D6304	>0.2	0.017	0.009	0.058	
ppm Water	ppm	ASTM D6304	>2000	179.8	93.3	580	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4μm		ASTM D7647	>20000	46149	▲ 46522	▲ 47629	
Particles >6µm		ASTM D7647	>5000	△ 5236	△ 9235	2918	
Particles >14μm		ASTM D7647	>640	60	139	13	
Particles >21μm		ASTM D7647	>160	9	17	2	
Particles >38μm		ASTM D7647	>40	1	7	1	
Particles >71μm		ASTM D7647	>10	0	3	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/13	△ 23/20/14	<u>△</u> 23/19/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
A : I N	1/011/	10T11 D0015		0.50		0.61	

Acid Number (AN)

mg KOH/g ASTM D8045

0.57

0.59

0.61



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: USPM29239 : 05928320 : 10608267

Received : 18 Aug 2023 Diagnosed Diagnostician

: 21 Aug 2023 : Doug Bogart

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)

TYSON-DAKOTA CITY-USP

P.O. BOX 515 DAKOTA CITY, NE US 68731

Contact: RICHARD KOCH

T: (605)235-2396

F: (605)235-2960