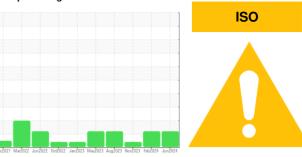


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **TROLLEY RETURN**

Gearbox

USPI FG GEAR 220 (--- GAL)

### **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

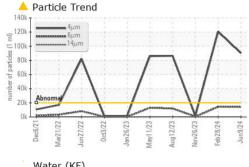
### **Fluid Condition**

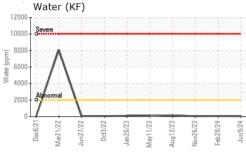
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

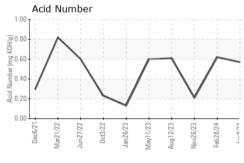
		Dec2UZ1 Mar2	UZZ JunZUZZ OctZUZZ JanZ	023 May2023 Aug2023 Nov2023 Feb	2024 Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37599	USPM30278	USPM31357
Sample Date		Client Info		09 Jun 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	10	0
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm		>200	0	0	0
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<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	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		509	437	550
Zinc	ppm	ASTM D5185m		0	6	0
Sulfur	ppm	ASTM D5185m		4034	3115	4709
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	9	<1
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m		0	0	1
Water	%	ASTM D6304	>0.2	0.003	0.006	0.004
ppm Water	ppm	ASTM D6304	>2000	37	61	44
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u>▲</u> 120630	1819
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u>▲</u> 14434	554
Particles >14μm		ASTM D7647	>640	224	148	44
Particles >21µm		ASTM D7647	>160	33	17	11
Particles >38µm		ASTM D7647	>40	2	0	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/15	<u>4</u> 24/21/14	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.57	0.62	0.21

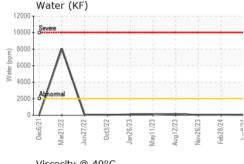


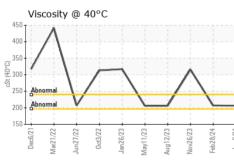
## OIL ANALYSIS REPORT

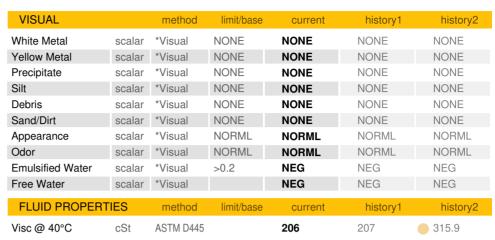












SAMPLE IMAGES

method

limit/base

current

history1

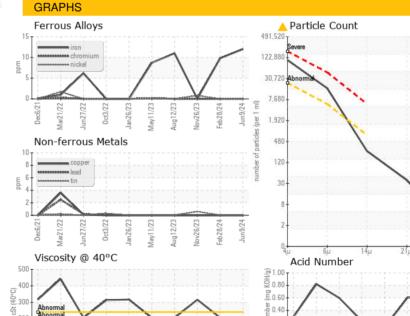
history2

**Bottom** 

Color











Certificate 12367

Laboratory Sample No. Lab Number

Test Package : IND 2

100

: USPM37599 : 06205467 Unique Number : 11072928

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024

> **Tested** : 12 Jun 2024

Diagnosed : 12 Jun 2024 - Doug Bogart

0.00 G

TYSON-DAKOTA CITY-PRO

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

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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: Service Manager - IBPDAKPRO

F: (605)235-2960

T: