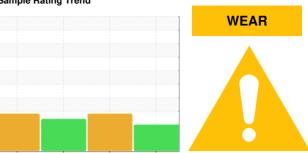


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# LOG DOWNSTREAM LIFTING (S/N MARK 1/PO835)

Gearbox

USPI FG GEAR 460 (--- GAL)

## **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

The aluminum level is abnormal. All other component wear rates are normal.

### Contamination

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

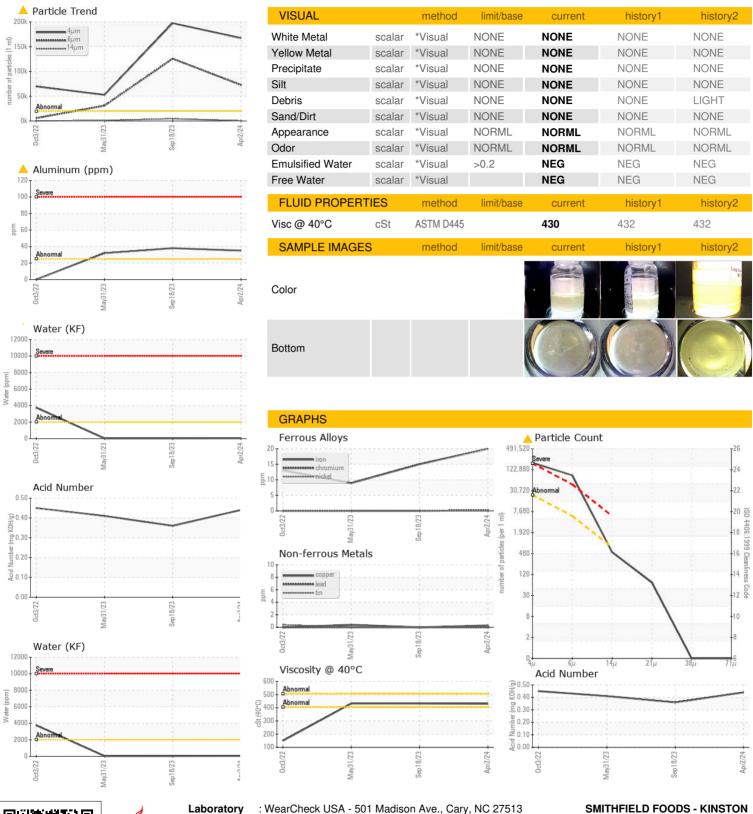
### **Fluid Condition**

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

		Oct202	2 May2023	Sep2023 A	pr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36601	USPM29664	USPM28854
Sample Date		Client Info		02 Apr 2024	18 Sep 2023	31 May 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	20	15	9
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b> 35	<b>▲</b> 38	<b>△</b> 32
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	РРШ	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	minu base	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
		ASTM D5185m		0	0	0
Molybdenum	ppm			√ <1		
Manganese	ppm	ASTM D5185m ASTM D5185m			<1 2	<1 2
Magnesium	ppm			3 29		
Calcium	ppm	ASTM D5185m			21	10
Phosphorus	ppm	ASTM D5185m		570	549	495
Zinc	ppm	ASTM D5185m		5	0	3
Sulfur	ppm	ASTM D5185m		597	637	723
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	37	39	34
Sodium	ppm	ASTM D5185m		21	20	12
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.2	0.004	0.003	0.002
ppm Water	ppm	ASTM D6304	>2000	44	28.1	20.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	<u> </u>	▲ 197383	<u></u> 52844
Particles >6µm		ASTM D7647	>5000	<u>^</u> 72708	<u>125640</u>	▲ 30798
Particles >14μm		ASTM D7647	>640	464	<b>△</b> 4533	<b>△</b> 953
Particles >21µm		ASTM D7647	>160	63	▲ 324	47
Particles >38μm		ASTM D7647	>40	0	3	4
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>25/23/16</b>	<u>\$\times\$ 25/24/19</u>	<b>△</b> 23/22/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.36	0.41



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: USPM36601 : 06136428 Unique Number : 10955893

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Apr 2024 **Tested** : 03 Apr 2024

> Diagnosed : 04 Apr 2024 - Doug Bogart

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)

T: F:

Contact: SERVICE MANAGER

KINSTON, NC

US