

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

LOG UPSTREAM ROTATING (S/N 07061011)

Gearbox

USPI FG GEAR 460 (--- 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.

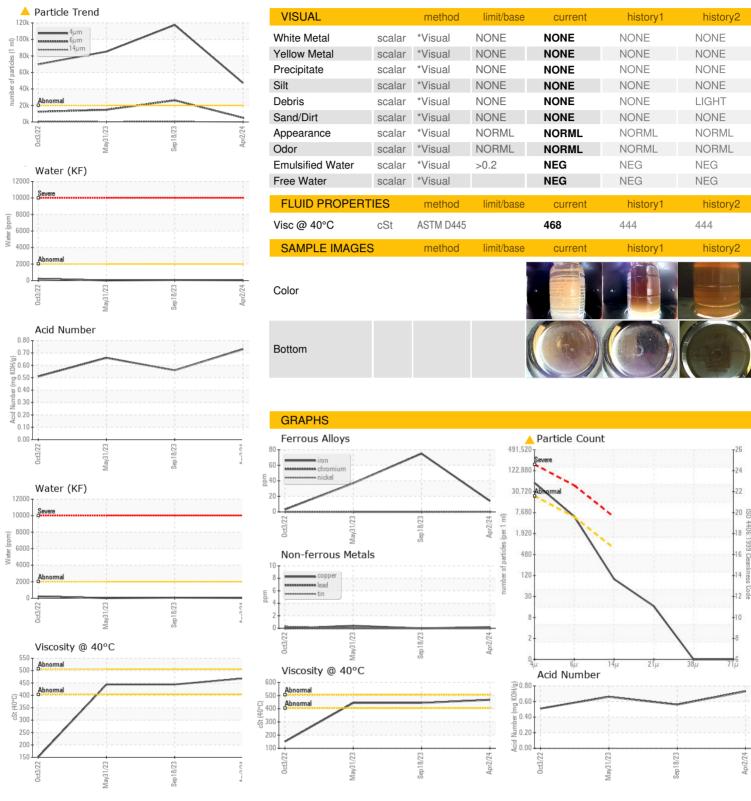
Fluid Condition

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

		0ct2023	2 May2023	Sep2023 A	pr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36597	USPM29663	USPM28857
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	14	75	37
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	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	<1
Magnesium	ppm	ASTM D5185m		<1	1	<1
Calcium	ppm	ASTM D5185m		7	55	25
Phosphorus	ppm	ASTM D5185m		714	636	611
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		576	662	630
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	4	4
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.2	0.003	0.007	0.002
ppm Water	ppm	ASTM D6304	>2000	37	70.8	16.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	47346	<u>▲</u> 117445	<u>▲</u> 85258
Particles >6µm		ASTM D7647	>5000	<u>5157</u>	<u>▲</u> 26223	<u>▲</u> 14760
Particles >14µm		ASTM D7647	>640	84	467	316
Particles >21µm		ASTM D7647	>160	14	75	115
Particles >38µm		ASTM D7647	>40	0	7	30
Particles >71µm		ASTM D7647	>10	0	5	7
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/20/14</u>	<u>4</u> 24/22/16	2 4/21/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.73	0.56	0.66



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Certificate 12367

Laboratory Sample No. Lab Number

: USPM36597 : 06136432 Unique Number : 10955897

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

Diagnosed : 04 Apr 2024 - Doug Bogart

Test Package : IND 2 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)

Report Id: SMIKIN [WUSCAR] 06136432 (Generated: 04/05/2024 20:44:04) Rev: 1

Contact/Location: SERVICE MANAGER? - SMIKIN

SMITHFIELD FOODS - KINSTON

Contact: SERVICE MANAGER

KINSTON, NC

US

T:

F: