

OIL ANALYSIS REPORT



Machine Id

LOAF DOWNSTREAM LIFTING (S/N S0013JPEFTHBA3) Component Gearbox Fluid

USPI FG GEAR 460 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36603	USPM29665	USPM28850
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	6	2	4
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	0	3	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		<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		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	<1
Magnesium	ppm	ASTM D5185m		1	<1	<1
Calcium	ppm	ASTM D5185m		4	2	<1
Phosphorus	ppm	ASTM D5185m		513	568	570
Zinc	ppm	ASTM D5185m		<1	0	<1
Sulfur	ppm	ASTM D5185m		447	505	537
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	3	3
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.2	0.019	0.024	0.014
ppm Water	ppm	ASTM D6304	>2000	191	246.4	148.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	6 55297	1 42707	▲ 142553
Particles >6µm		ASTM D7647	>5000	<mark> </mark> 7955	<u> </u>	▲ 52221
Particles >14µm		ASTM D7647	>640	200	A 3207	143
Particles >21µm		ASTM D7647	>160	39	▲ 524	14
Particles >38µm		ASTM D7647	>40	0	3	3
Particles >71µm		ASTM D7647	>10	0	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 23/20/15	4/23/19	4 /23/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

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1404

nber of particles (1

40k

20

0

12000

1000

800 (maa)

6000 Water 400

2001

0.10

1200

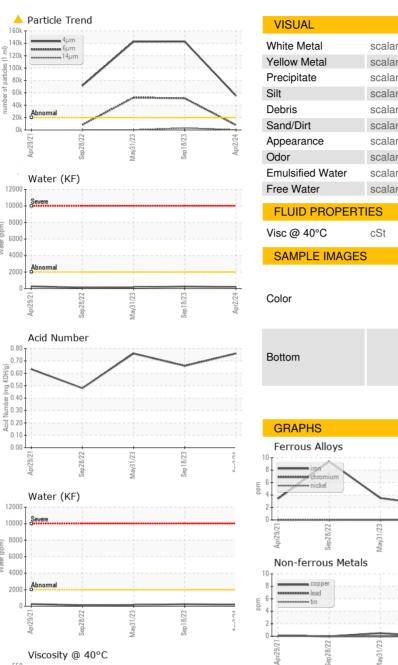
10000

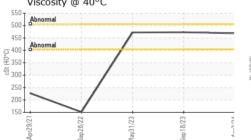
4000

200

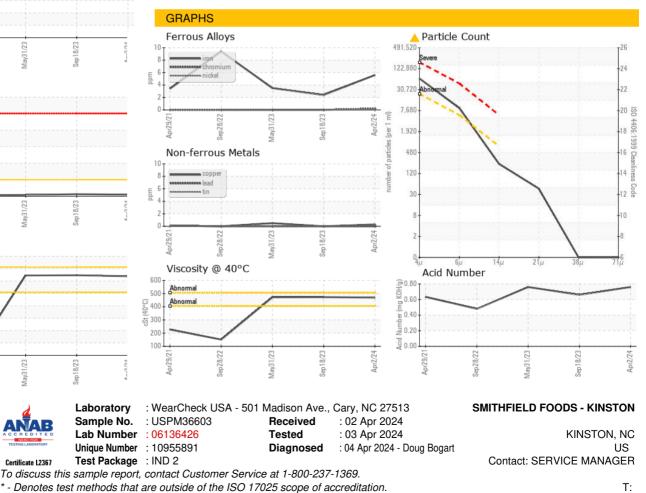
Water (ppm) 6000

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/ISUAL		method	limit/base	current	history1	history2
nite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
llow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ecipitate	scalar	*Visual	NONE	NONE	NONE	NONE
t	scalar	*Visual	NONE	NONE	NONE	NONE
bris	scalar	*Visual	NONE	NONE	LIGHT	NONE
nd/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
pearance	scalar	*Visual	NORML	NORML	NORML	NORML
lor	scalar	*Visual	NORML	NORML	NORML	NORML
nulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ee Water	scalar	*Visual		NEG	NEG	NEG
LUID PROPERT	IES	method	limit/base	current	history1	history2
sc @ 40°C	cSt	ASTM D445		469	473	472
SAMPLE IMAGES		method	limit/base	current	history1	history2



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F:

Certificate 12367

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