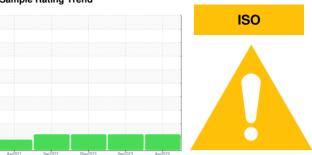


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

LOAF UPSTREAM LIFTING (S/N S0013JPEFTHBA3)

Component 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.

		Apr2021	Sep2022	May2023 Sep2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36598	USPM29661	USPM28852
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	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	2	1
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	3	0
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		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		<1	<1	<1
Calcium	ppm	ASTM D5185m		3	<1	0
Phosphorus	ppm	ASTM D5185m		611	584	578
Zinc	ppm	ASTM D5185m		1	<1	<1
Sulfur	ppm	ASTM D5185m		485	559	532
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	4	4
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.2	0.011	0.013	0.009
ppm Water	ppm	ASTM D6304	>2000	112	137.0	95.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	54268	<u></u> 45070	31621
Particles >6µm		ASTM D7647	>5000	9125	<u>▲</u> 10775	6817
Particles >14µm		ASTM D7647	>640	156	343	88
Particles >21µm		ASTM D7647	>160	22	67	11
Particles >38µm		ASTM D7647	>40	1	7	5
Particles >71µm		ASTM D7647	>10	0	5	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/14	△ 23/21/16	22/20/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74	0.65	0.79



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06136431 Unique Number : 10955896

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM36598

Received **Tested** Diagnosed

: 03 Apr 2024

: 04 Apr 2024 - Doug Bogart

: 02 Apr 2024

Test Package : IND 2 Certificate 12367 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] 06136431 (Generated: 04/05/2024 20:43:53) Rev: 1

SMITHFIELD FOODS - KINSTON

Contact: SERVICE MANAGER

KINSTON, NC

US

T:

F: