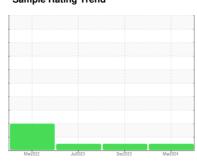


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 101 (S/N 131965002-2010)

Gearbox

USPI FG GEAR 220 (13 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

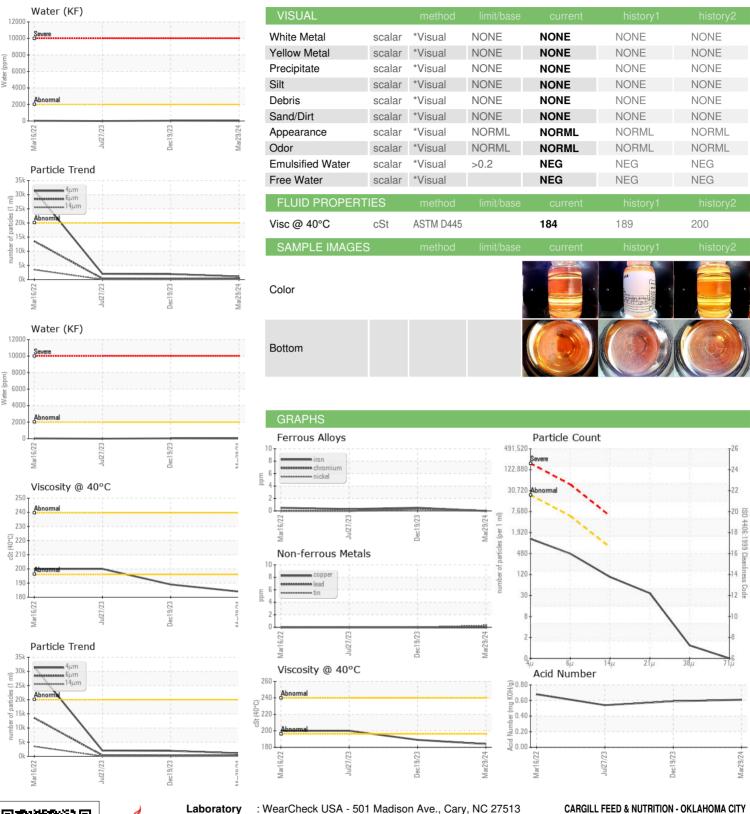
Fluid Condition

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

		Mar202	2 Jul2023	Dec2023 N	1ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP224135	USPM30620	USP224133
Sample Date		Client Info		29 Mar 2024	19 Dec 2023	27 Jul 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	<1	<1
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	3	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
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	0	0
Calcium	ppm	ASTM D5185m		0	1	2
Phosphorus	ppm	ASTM D5185m		354	479	431
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		21	439	476
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	4	3
Sodium	ppm	ASTM D5185m		0	8	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.2	0.001	0.003	0.001
ppm Water	ppm	ASTM D6304	>2000	14	39	0.00
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1111	1934	2030
Particles >6µm		ASTM D7647	>5000	419	254	358
Particles >14µm		ASTM D7647	>640	90	26	28
Particles >21µm		ASTM D7647	>160	31	6	8
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/16/14	18/15/12	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.59	0.54



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: USP224135 : 06139904

Unique Number : 10964712 Test Package : IND 2

Received **Tested** Diagnosed

: 05 Apr 2024 : 08 Apr 2024

: 08 Apr 2024 - Doug Bogart

2100 S ROBINSON AVE OKLAHOMA CITY, OK

US 73109 Contact: JOHN HAMRICK JOHN_HAMRICK@CARGILL.COM

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: