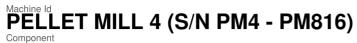


OIL ANALYSIS REPORT

Sample Rating Trend





Gearbox

USPI FG GEAR 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

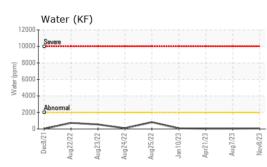
Fluid Condition

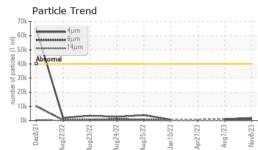
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

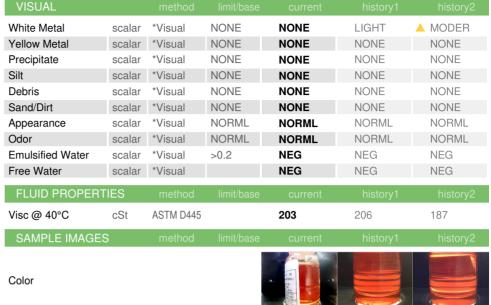
		Dec2021 Aug	2022 Aug2022 Aug2022	Aug2022 Jan2023 Apr2023 Aug20	123 Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31284	USPM28777	USPM28778
Sample Date		Client Info		08 Nov 2023	07 Aug 2023	21 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	16	12	10
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	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	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	0	<1
Calcium	ppm	ASTM D5185m		<1	0	2
Phosphorus	ppm	ASTM D5185m		639	611	583
Zinc	ppm	ASTM D5185m		17	0	8
Sulfur	ppm	ASTM D5185m		571	499	519
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	9	3
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m		2	<1	<1
Water	%	ASTM D6304	>0.2	0.006	0.004	0.004
ppm Water	ppm	ASTM D6304	>2000	68.3	45.2	45.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	1846	984	
Particles >6µm		ASTM D7647	>10000	710	360	
Particles >14µm		ASTM D7647	>2500	107	70	
Particles >21µm		ASTM D7647	>640	41	31	
Particles >38µm		ASTM D7647	>160	2	2	
Particles >71µm		ASTM D7647	>40	0	1	
Oil Cleanliness		ISO 4406 (c)	>22/20/18	18/17/14	17/16/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.59	0.72	0.71

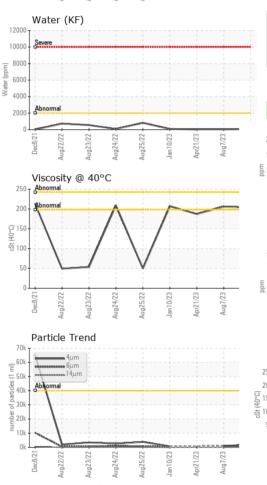


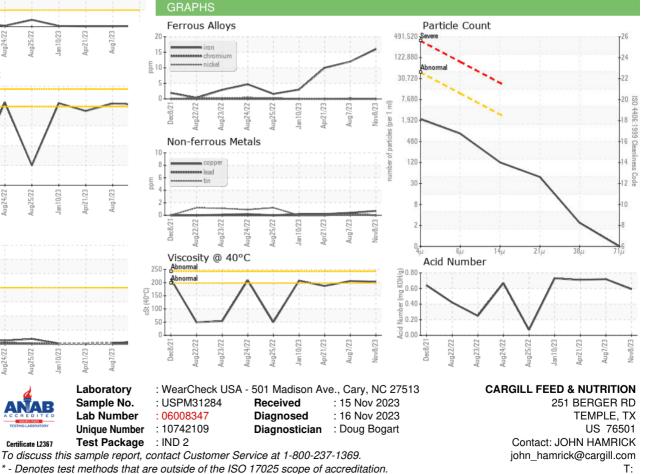
OIL ANALYSIS REPORT











* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Bottom

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

Certificate L2367

Contact/Location: JOHN HAMRICK - CARTEM

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