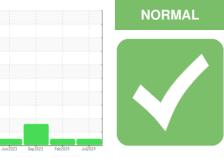


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# PM 2 (S/N MMV2-303) Gearbox

Fluid USPI FG GEAR 220 (--- GAL)

#### 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 component. The amount and size of particulates present in the system are acceptable.

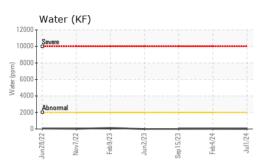
### Fluid Condition

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

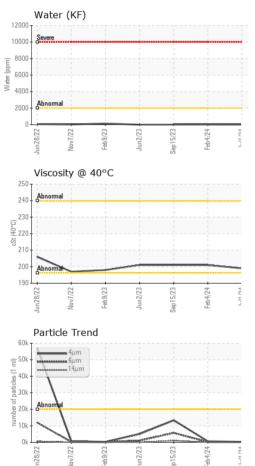
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37050	USPM17933	USP227641
Sample Date		Client Info		01 Jul 2024	04 Feb 2024	15 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	1	<1	2
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
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	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	2
Calcium	ppm	ASTM D5185m		0	5	2
Phosphorus	ppm	ASTM D5185m		572	520	583
Zinc	ppm	ASTM D5185m		16	35	49
Sulfur	ppm	ASTM D5185m		602	512	736
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	11	14
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.2	0.001	0.001	0.001
ppm Water	ppm	ASTM D6304	>2000	4	12	1.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	305	647	13323
Particles >6µm		ASTM D7647	>5000	84	232	5672
Particles >14µm		ASTM D7647	>640	13	40	032
Particles >21µm		ASTM D7647	>160	5	10	268
Particles >38µm		ASTM D7647	>40	1	0	11
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	15/14/11	17/15/12	21/20/17
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.32	0.32



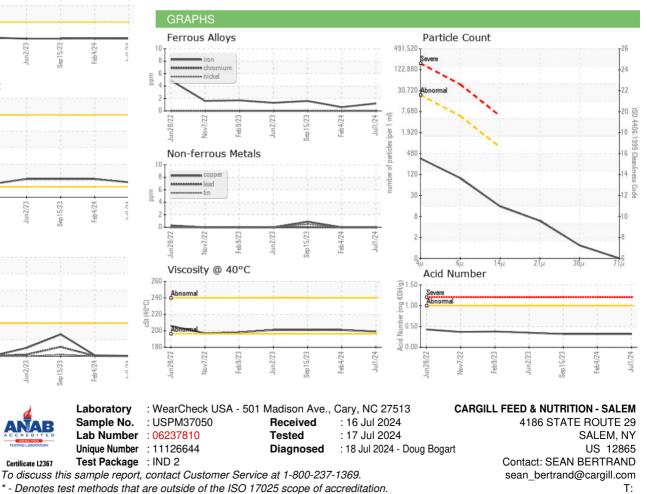
## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		199	201	201
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
0.1						
Color						5



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

Report Id: CARSALNY [WUSCAR] 06237810 (Generated: 07/18/2024 09:12:07) Rev: 1

Contact/Location: SEAN BERTRAND - CARSALNY

F: