

## **OIL ANALYSIS REPORT**

### Area **HOTLINE/120 MILL** 120 STAND 3A GEN WEST BRG 1415-035-0182

Bearing

Fluid **ROYAL PURPLE SYNFILM GT 68 (25 GAL)** 

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

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

1415-055-	0102					
		0ct202	2 Apr2023	Dec2023 M	ay2024	
SAMPLE INFORM		method	limit/base	ourropt	biotonul	history2
	VIATION		iiiiii/base	current	history1	history2
Sample Number		Client Info		KFS0004652	KFS0002507	KFS0003468
Sample Date		Client Info		10 May 2024	20 Dec 2023	17 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Fitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	<1
_ead	ppm	ASTM D5185m	>20	12	11	8
Copper	ppm	ASTM D5185m	>20	0	<1	<1
Tin	ppm	ASTM D5185m	>20	1	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		1	0	0
Volybdenum	ppm	ASTM D5185m		0	0	0
Vanganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	83	91	96
Calcium	ppm	ASTM D5185m		3	2	5
Phosphorus	ppm	ASTM D5185m		2	30	13
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m		22007	19141	23041
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	0
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>2	0.092		
opm Water	ppm	ASTM D6304		920		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1413	408	9392
Particles >6µm		ASTM D7647	>2500	201	86	1262
Particles >14µm		ASTM D7647	>160	18	12	30
Particles >21µm		ASTM D7647	>40	4	3	4
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	18/15/11	16/14/11	20/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.37	0.36

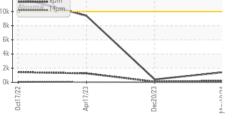
Sample Rating Trend NORMAL



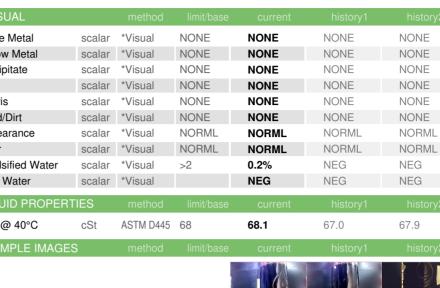


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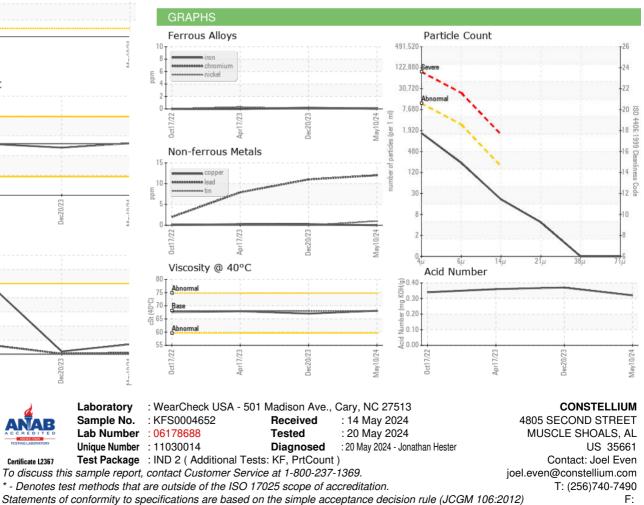
S	LUTIONS				
1200	Water (KF)				VISUAL
1000	0				White Metal
- 800					Yellow Metal
Water (ppm) 400					Precipitate
<sup>48</sup> ≥ 400					Silt
200					Debris
0	Abnormal				Sand/Dirt
				May10/24	Appearance
	May10/24			May1	Odor
	Particle Trei	nd			Emulsified Water
14k					Free Water
 10k	4μm Abnormal 14μm				FLUID PROPE
number of particles (1 ml) 8 k 9 k 4 k 4 k 4 k 4 k 4 k 4 k 4 k 4 k 4					Visc @ 40°C
-10 0K					SAMPLE IMAG
III 2k					
0k			And a state of the		
	0ct17/22	Apr17/23	Dec20/23	May10/24	Color
	00	Ap	De	Ma	
	Water (KF)				
1200					Bottom
1000	- Severe			-	
(md 800					
Water (ppm)					
≤ 400					
200	Abnormal				GRAPHS
0	andra			VC	Ferrous Alloys
	May10/24			100.0114	8 iron
	≥				6 - nickel
80	Viscosity @	40°C		-	1
80					2
75	Abnormal				0ct17/22
0 70	Base				Oct
(40°C) 52 (40°C) 52 62					Non-ferrous M
60					15 copper
				1	10
55	122	- 23	23 -		5-
	0ct17/22	Apr17/23	Dec20/23	ACA1	WHAT BE REAL PROPERTY AND IN COMPANY
				2	3770
14k	Particle Trei	nd			0ct17/22
12k	4μm				Viscosity @ 40
〒10k	Abnormal. 14pm				80 T
saloji Juli 8k	-				75 - Abnormal
er of particles (1 ml) 9 % %				J-UU	65
0	1	· · · · ·	1 1	<i>Q</i>	00



Certificate 12367







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Submitted By: COLD MILL - Josh Edwards

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