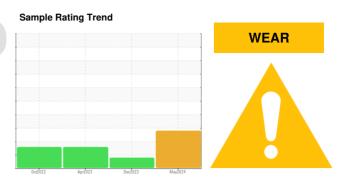


# **OIL ANALYSIS REPORT**

# **HOTLINE/120 MILL** 120 MILL MTR STAND 3A NORTH BRG 1415-035-0211

**North Bearing** 

**ROYAL PURPLE SYNFILM GT 68 (30 GAL)** 



## DIAGNOSIS

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

#### Wear

An increase in the iron level is noted. The lead level is abnormal.

### 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 acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004808	KFS0005144	KFS0003395
Sample Date		Client Info		10 May 2024	19 Dec 2023	17 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				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>35</b>	9	11
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	<1
Lead	ppm	ASTM D5185m	>20	<u>^</u> 82	<u>84</u>	▲ 77
Copper	ppm	ASTM D5185m	>20	3	4	3
Tin	ppm	ASTM D5185m	>20	8	6	7
Vanadium		ASTM D5185m	<i>&gt;</i> 20	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	69	76	85
Calcium	ppm	ASTM D5185m		5	2	2
Phosphorus	ppm	ASTM D5185m		12	31	4
Zinc	ppm	ASTM D5185m		6	0	4
Sulfur	ppm	ASTM D5185m		21770	21525	22421
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	<1	0
Omoon		ALO TIM DO TOOM		J		
Sodium	ppm	ASTM D5185m		1	<1	<1
					<1 <1	<1 0
Sodium	ppm ppm	ASTM D5185m		1		
Sodium Potassium FLUID CLEANLIN	ppm ppm	ASTM D5185m ASTM D5185m	>20	1 2	<1	0
Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647	>20 limit/base	1 2 current	<1 history1	0 history2
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647	>20 limit/base >10000	1 2 current ^ 208839	<1 history1 3187	0 history2 13310
Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >10000 >2500 >160	1 2 current ^ 208839 ^ 14728	<1 history1 3187 216	0 history2 13310 1053
Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >10000 >2500 >160	1 2 current  ^ 208839  ^ 14728 94	<1 history1 3187 216 5	0 history2 13310 1053 22
Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >10000 >2500 >160 >40 >10	1 2 current  208839  14728 94 24 1	<1 history1 3187 216 5 2 0	0 history2 13310 1053 22 5 0
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >10000 >2500 >160 >40 >10	1 2 current  208839  14728 94 24	<1 history1 3187 216 5 2	0 history2 13310 1053 22 5
Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >10000 >2500 >160 >40 >10 >3	1 2 current 208839 14728 94 24 1 0	<1 history1 3187 216 5 2 0 0	0 history2 13310 1053 22 5 0 0



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number

: 06179322

: KFS0004808 Unique Number : 11030648

Test Package : IND 2 ( Additional Tests: PrtCount )

Received Tested Diagnosed

: 14 May 2024 : 16 May 2024

: 16 May 2024 - Angela Borella

Contact: Joel Even joel.even@constellium.com T: (256)740-7490

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)

US 35661

4805 SECOND STREET

MUSCLE SHOALS, AL