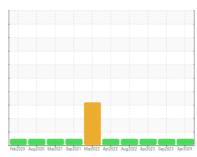


MILLING

# **OIL ANALYSIS REPORT**

## Sample Rating Trend







C-111 Component Gearbox Fluid

MOBIL SHC 630 (1 LTR)

### DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil.

## **Fluid Condition**

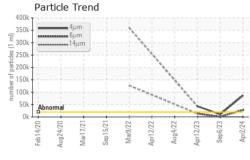
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

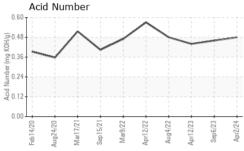
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0919956	WC0854683	WC0809608
Sample Date		Client Info		02 Apr 2024	06 Sep 2023	12 Apr 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	18	13
Oil Changed		Client Info		N/A	Oil Added	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	42	45	52
Chromium	ppm	ASTM D5185m	>15	<1	0	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	2	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	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		<1	1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	3
Calcium	ppm	ASTM D5185m		4	3	1
Phosphorus	ppm	ASTM D5185m		421	518	463
Zinc	ppm	ASTM D5185m		7	7	0
Sulfur	ppm	ASTM D5185m		0	46	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	30	27	27
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	86853	10615	43258
Particles >6µm		ASTM D7647	>5000	28321	1138	13545
Particles >14µm		ASTM D7647	>640	704	43	1101
Particles >21µm		ASTM D7647	>160	73	9	87
Particles >38µm		ASTM D7647	>40	0	1	4
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	24/22/17	21/17/13	23/21/17

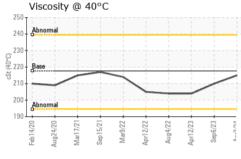
0.48

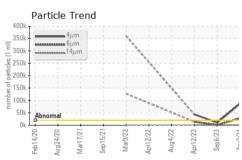


## **OIL ANALYSIS REPORT**







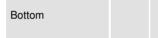


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

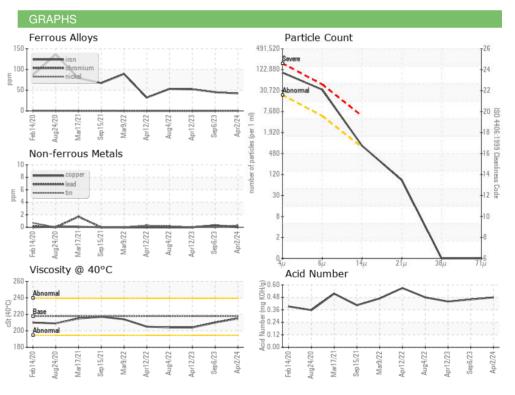
Visc @ 40°C	cSt	ASTM D445	217.7	215	210	204
SAMPLE IMAGI	ES	method				history2

Color

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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0919956 Lab Number : 06138527 Unique Number : 10963335

Received **Tested** Diagnosed

: 04 Apr 2024 : 05 Apr 2024

: 06 Apr 2024 - Don Baldridge

US 57445-6400 Contact: GAVIN KRUEGER Gavin.Krueger@POET.COM T: 6(05)846-6863

**POET BIOREFINING - Groton** 

40425 133RD STREET

GROTON, SD

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2 ( Additional Tests: PrtCount )

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

F: (605)397-2754