

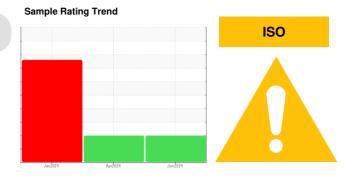
# **OIL ANALYSIS REPORT**

# **Effluent Treatment Plant**

Secondary East Clarifier Bottom Gearbox 21-265-011.03

**Bottom Gearbox** 

MOBIL SHC 636 (--- GAL)



### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

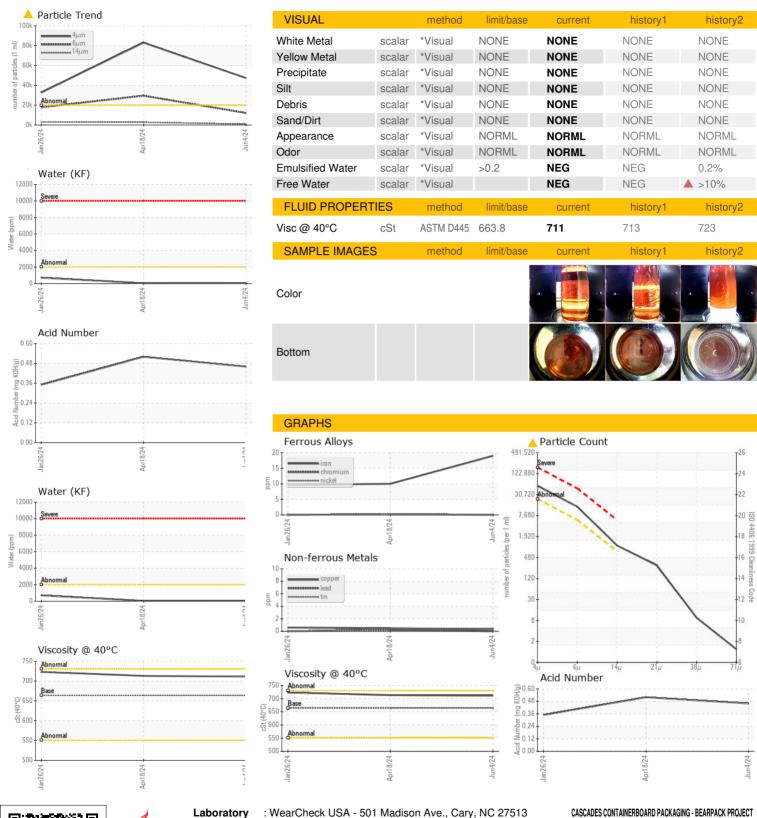
### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776452	WC0776368	WC0776374
Sample Date		Client Info		04 Jun 2024	18 Apr 2024	26 Jan 2024
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	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	19	10	10
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		1	0	1
Phosphorus	ppm	ASTM D5185m		480	424	427
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		18	173	68
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	17	18	6
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	1	1
Water	%	ASTM D6304	>0.2	0.005	0.004	0.071
ppm Water	ppm	ASTM D6304	>2000	55	46	710
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	<b>47312</b>	<b>▲</b> 83081	▲ 32676
Particles >6µm		ASTM D7647	>5000	<u> </u>	<b>29526</b>	<b>▲</b> 17800
Particles >14µm		ASTM D7647	>640	931	<b>▲</b> 2723	<b>△</b> 3029
Particles >21µm		ASTM D7647	>160	<u>251</u>	<u> </u>	<u> </u>
Particles >38µm		ASTM D7647	>40	8	33	<u></u> ▲ 158
Particles >71μm		ASTM D7647	>10	1	2	<b>△</b> 16
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/21/17</u>	<b>2</b> 4/22/19	<u>22/21/19</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.52	0.35



## **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No. Lab Number

: 06200134 Unique Number : 11062257

: WC0776452 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 05 Jun 2024 Tested : 06 Jun 2024

Diagnosed : 06 Jun 2024 - Wes Davis

Contact: MARC-ANDRE HUBERT marc-andre\_hubert@cascades.com T:

10026 OLD RIDGE ROAD

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)

ASHLAND, VA

US 23005

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