

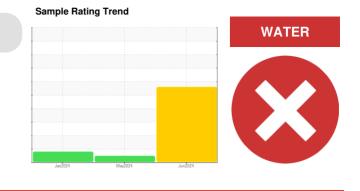
# **PROBLEM SUMMARY**

#### Area **Effluent Treatment Plant** Machine Id Secondary Center Clarifier Bottom Gearbox 21-265-002.03 Bottom Gearbox Fluid

MOBIL SHC 636 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display



### RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE		ABNORMAL	
Silt	scalar	*Visual	NONE	🔺 MODER	NONE	A MODER	
Free Water	scalar	*Visual		<b>▲</b> >10%	NEG	NEG	

Customer Id: CASASH Sample No.: WC0776454 Lab Number: 06200129 Test Package: PLANT



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.			

## HISTORICAL DIAGNOSIS

10 May 2024 Diag:





view report

# SEDIMENT

#### 26 Jan 2024 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

## Area **Effluent Treatment Plant** Machine Id Secondary Center Clarifier Bottom Gearbox 21-265-002.03 Bottom Gearbox

Fluid

MOBIL SHC 636 (--- GAL)

## DIAGNOSIS

#### Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Excessive free water present. There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776454	WC0776652	WC0776371
Sample Date		Client Info		04 Jun 2024	10 May 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				SEVERE		ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	13	11	13
Chromium	ppm	ASTM D5185m	>15	0	<1	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	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	2
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
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 0
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 <1	0	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0	0 0 0	0 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1	0 0 0 0	0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1 0	0 0 0 0 0	0 0 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1 0 3	0 0 0 0 0 0	0 0 <1 <1 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1 0 3 494	0 0 0 0 0 0 431	0 0 <1 <1 <1 <1 414
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1 0 3 494 0	0 0 0 0 0 0 431 0	0 0 <1 <1 <1 <1 414 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 0 <1 0 3 494 0 89	0 0 0 0 0 0 431 0 10	0 0 <1 <1 <1 <1 414 0 63
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 0 <1 0 3 494 0 89 current	0 0 0 0 0 0 431 0 10 10 history1	0 0 <1 <1 <1 <1 414 0 63 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	limit/base	0 <1 0 <1 0 3 494 0 89 <b>current</b> 11	0 0 0 0 0 0 431 0 10 10 history1	0 0 0 <1 <1 <1 <1 414 0 63 history2 13
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base >50	0 <1 0 <1 0 3 494 0 89 <b>Current</b> 11 0	0 0 0 0 0 0 431 0 10 10 <b>history1</b> 0 0	0 0 0 <1 <1 <1 414 0 63 <b>history2</b> 13 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20	0 <1 0 <1 0 3 494 0 89 Current 11 0 1	0 0 0 0 0 0 431 0 10 10 <b>history1</b> 0 0 0	0 0 0 <1 <1 <1 414 0 63 <b>history2</b> 13 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20 >0.2	0 <1 0 3 494 0 89 <u>current</u> 11 0 1 0.100	0 0 0 0 0 0 431 0 10 <b>history1</b> 0 0 0 0 0 0 0 0 0.070	0 0 0 <1 <1 <1 414 0 63 history2 13 0 <1 0.015

Sample Rating Trend WATER



Wate

Severe

Abnorm 2000

Wate

Severe

Abnorm 2000

Visco 750 Abnorm

Abnorm 550 500 Jan26/24

12000

10000

8000 Water (ppm)

6000

4000

12000

10000 8000 Water (ppm)

6000 4000

> 700 Base

() 650 () ·
弦 600

# **OIL ANALYSIS REPORT**

er (KF)			VISUAL		method	limit/base	current
			White Metal	scalar	*Visual	NONE	NONE
			Yellow Metal	scalar	*Visual	NONE	NONE
			Precipitate	scalar	*Visual	NONE	NONE
			Silt	scalar	*Visual	NONE	▲ MODER
mal			Debris	scalar	*Visual	NONE	NONE
			Sand/Dirt	scalar	*Visual	NONE	NONE
	May10/24 -	Jun4/24 -	Appearance	scalar	*Visual	NORML	NORML
	May1	nn	Odor	scalar	*Visual	NORML	NORML
er (KF)			Emulsified Water	scalar	*Visual	>0.2	0.2%
			Free Water	scalar	*Visual		<b>▲</b> >10%
			FLUID PROPER	TIES	method	limit/base	current
			Visc @ 40°C	cSt	ASTM D445	663.8	702
			SAMPLE IMAGE	S	method	limit/base	current
mal							
	24 -	24	Color				
	May10/24	Jun4/24	0000				
osity @ 40						_	
mal							683
			Bottom				
mal			MPC				no image
		-					
	)/24 -	un4/24	GRAPHS				
	May10/24	hul	Ferrous Alloys				
			<sup>15</sup>				
			10 - chromium				
			5 - S				
			0	4		57:	
			Jan 26/24	May10/24		Jun4/24	
			⊸ Non-ferrous Meta			,	
			10 <sub>T</sub>	13			
			E _ copper				
			E 5-				
			0	**			
			Jan 26/24	May10/24		Jun4/24	
				Ma		7	
			Viscosity @ 40°C				Acid Number
			© 700 - Base			(B/HO) 6.60 0.40 0.20 90.00	
			응 700 - Base 중 600 - Abnormal			E 0.70	
			500 Abnormal			2 P.0.20	
				0/24 -		Jun4/24	6/24
			Jan 26,24	May10/24		Jun	Jan 26/2
- 	d	Laboratory	: WearCheck USA - 50				CASCADES C
34.3	ANAB	Sample No.	: WC0776454 : 06200129	Recei Teste		5 Jun 2024	
	A C C R E D I T E D	Lab Number Unique Number	: 11062252			' Jun 2024 Jun 2024 - Jonatl	han Hester
<u>75</u>	Cartificate   2367	Test Package		Diagi			Cor

CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT 10026 OLD RIDGE ROAD ASHLAND, VA : 07 Jun 2024 - Jonathan Hester US 23005 Contact: MARC-ANDRE HUBERT marc-andre\_hubert@cascades.com

Mav10/24

NONE

NONE

NONE

NONE

A MODER

NONE

NORML

NORML

historv1

- 2

no image

0.2%

NEG

**A** 732

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

706

no image

🔺 MODER

T: F:

un4/24

\* - 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)

Report Id: CASASH [WUSCAR] 06200129 (Generated: 06/07/2024 23:39:05) Rev: 1

Test Package : PLANT

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: MARC-ANDRE HUBERT

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