

## OIL ANALYSIS REPORT

Sample Rating Trend

ISO

# **GOULD 328 - EFFECT 3 RECIRCULATION**

**Pump** 

**MOBIL SHC 626 (1 GAL)** 

# Component

#### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Analytical Ferrography: Results appear normal with typical amounts of ferrous rubbing wear and contamination. Particle count can be elevated with no evidence on analytical Ferrography when there is virtually no wear involved to hold debris on the slide and that may be the case here; if this system is filtered then a filter service is suggested along with investigation into the source of debris. but if filtration is not an option with such a small sump then investigate for the source of contamination if possible.

#### Wear

All component wear rates are normal. The analytical ferrographic results are normal indicating no abnormal wear in the system.

#### Contaminants

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

#### Oil 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.

				Mar2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0783646		
Sample Date		Client Info		24 Mar 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16		
Iron	ppm	ASTM D5185m	>90	0		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>7	<1		
Lead	ppm	ASTM D5185m	>12	0		
Copper	ppm	ASTM D5185m	>30	0		
Tin	ppm	ASTM D5185m	>9	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	177	method	limit/base	current	history1	history2
	202		minu bacc			
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		450		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<b>2388</b>		

ASTM D7647 >160

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

55

10

0

0

ISO 4406 (c) >19/17/14 A 21/18/13

Particles >14µm

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness



## OIL ANALYSIS REPORT





Sample No. Lab Number **Unique Number** 

: WC0783646 : 05803853 : 10401382

Recieved Diagnosed

: 31 Mar 2023 : Aaron Black Diagnostician

Test Package : PLANT ( Additional Tests: A-FERR ) Certificate L2367 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.

MACON, GA

US 31206 Contact: DARYL SPRINGER

daryl.springer@graphicpkg.com T: (478)784-3677

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

F:



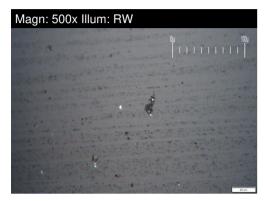
# **FERROGRAPHY REPORT**

# GOULD 328 - EFFECT 3 RECIRCULATION

Component

Pump Fluid

MOBIL SHC 626 (1 GAL)









FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2		
Ferrous Sliding	Scale 0-10	*ASTM D7684				
Ferrous Cutting	Scale 0-10	*ASTM D7684				
Ferrous Rolling	Scale 0-10	*ASTM D7684				
Ferrous Break-in	Scale 0-10	*ASTM D7684				
Ferrous Spheres	Scale 0-10	*ASTM D7684				
Ferrous Black Oxides	Scale 0-10	*ASTM D7684				
Ferrous Red Oxides	Scale 0-10	*ASTM D7684				
Ferrous Corrosive	Scale 0-10	*ASTM D7684				
Ferrous Other	Scale 0-10	*ASTM D7684				
Nonferrous Rubbing	Scale 0-10	*ASTM D7684				
Nonferrous Sliding	Scale 0-10	*ASTM D7684				
Nonferrous Cutting	Scale 0-10	*ASTM D7684				
Nonferrous Rolling	Scale 0-10	*ASTM D7684				
Nonferrous Other	Scale 0-10	*ASTM D7684				
Carbonaceous Material	Scale 0-10	*ASTM D7684				
Lubricant Degradation	Scale 0-10	*ASTM D7684				
Sand/Dirt	Scale 0-10	ASTM D7684				
Fibres	Scale 0-10	*ASTM D7684				
Spheres	Scale 0-10	*ASTM D7684				
Other	Scale 0-10	*ASTM D7684		2		

### **WEAR**

All component wear rates are normal. The analytical ferrographic results are normal indicating no abnormal wear in the system.

This page left intentionally blank