

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# 331 - EFFECT 6 RECIRCULATION

Pump Fluid MOBIL SHC 626 (1

### MOBIL SHC 626 (1 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Analytical Ferrography: Results are normal with typical amounts of ferrous rubbing wear and contamination present.

#### Wear

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

#### Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### **Oil Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Mar2023	Jul2023		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824327	WC0783651	
Sample Date		Client Info		19 Jul 2023	24 Mar 2023	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		3	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	12	
Iron	ppm	ASTM D5185m	>90	<1	<1	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>7	0	<1	
Lead	ppm	ASTM D5185m	>12	0	0	
Copper	ppm	ASTM D5185m	>30	0	0	
Tin	ppm	ASTM D5185m	>9	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		460	448	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	4	16	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2476	62151	
Particles >6µm		ASTM D7647	>1300	258	<b>1</b> 5056	
Particles >14µm		ASTM D7647	>160	13	<b>6</b> 41	
Particles >21µm		ASTM D7647	>40	4	<u> </u>	
Particles >38µm		ASTM D7647	>10	0	8	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	▲ 23/21/17	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.66	0.55	



## **OIL ANALYSIS REPORT**

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.9

Particle Count

Acid Number

Mar24/73

31

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

65.7

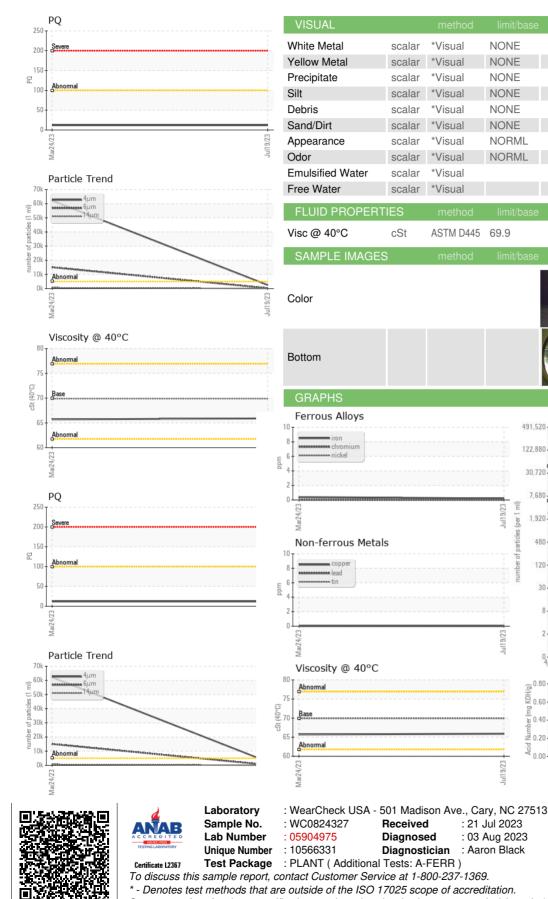
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**GRAPHIC PACKAGING INTERNATIONAL** 100 GRAPHIC PACKAGING INTERNATIONAL MACON, GA US 31206 Contact: DARYL SPRINGER daryl.springer@graphicpkg.com T: (478)784-3677 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Submitted By: DARYL SPRINGER

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## **331 - EFFECT 6 RECIRCULATION**

Pump Fluid MOBIL SHC 626 (1 GAL)





FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2	2	
Ferrous Sliding	Scale 0-10	*ASTM D7684			2	
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	4	



#### 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