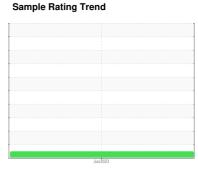


## **OIL ANALYSIS REPORT**

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NORMAL



# 2PM WET END

Component

Tank Circulating System

**MOBIL DTE PM 220 (6000 GAL)** 

#### Recommendation

Resample at the next service interval to monitor. Analytical Ferrography: Results indicate normal operation with minimal ferrous rubbing wear and external contamination.

#### Wear

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

#### Contaminants

There is no indication of any contamination in the oil.

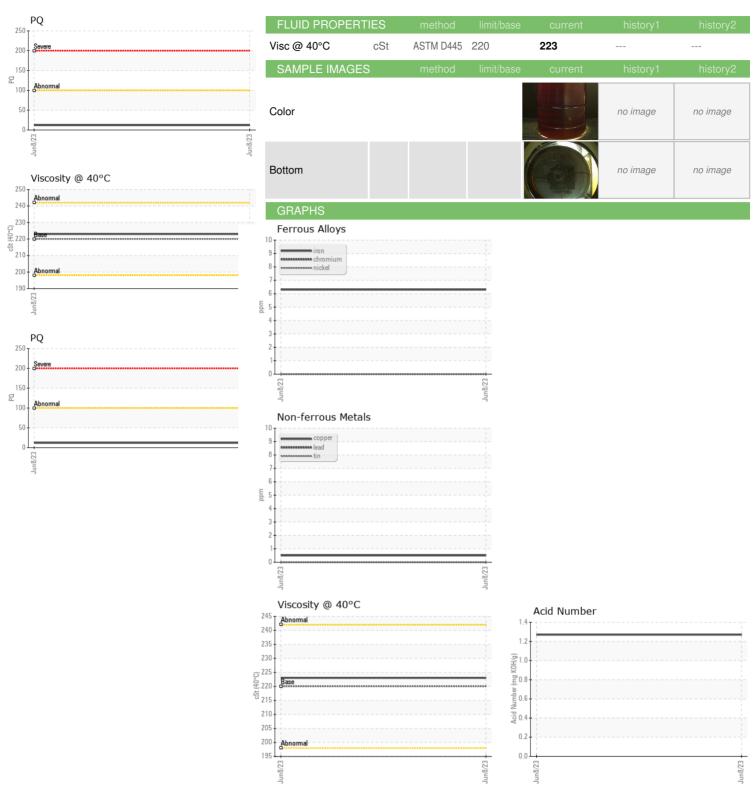
### **Oil Condition**

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

				Jun 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824311		
Sample Date		Client Info		08 Jun 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12		
Iron	ppm	ASTM D5185m		6		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		<1		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
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		15		
Phosphorus	ppm	ASTM D5185m		812		
Zinc	ppm	ASTM D5185m		1038		
Sulfur	ppm	ASTM D5185m		6449		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2		
Sodium	ppm	ASTM D5185m		41		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.27		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual		NEG		
Free Water	scalar	*Visual	)	NEG	DARYL SPRING	GER GRAMAC



### **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0824311 : 05869555 : 10509339

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

: 16 Jun 2023 Diagnostician : Aaron Black

: 09 Jun 2023

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

**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:

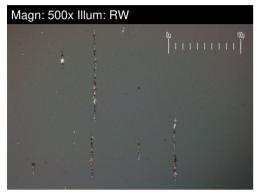


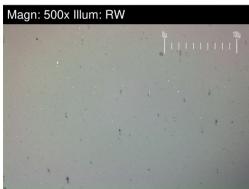
# **FERROGRAPHY REPORT**

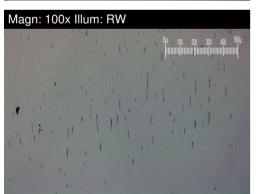
# 2PM WET END

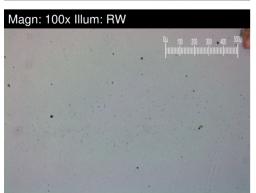
Component
Tank Circulating System

**MOBIL DTE PM 220 (6000 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		1		
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		1		

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

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