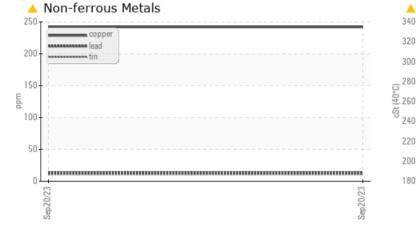


PROBLEM SUMMARY

ROTO WINDER

Component Gearbox Fluid CHEVRON MEROPA 220 (3 GAL)

COMPONENT CONDITION SUMMARY



▲ Viscosity @ 40°C

Sample Rating Trend



WEAR

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>200	<u> </u>	
Tin	ppm	ASTM D5185m	>10	A 11	
Visc @ 40°C	cSt	ASTM D445	209	<u> </u>	

Customer Id: 3MBBRO Sample No.: TO60001360 Lab Number: 05963787 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



WEAR

ROTO WINDER

Gearbox Fluid CHEVRON MEROPA 220 (3 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

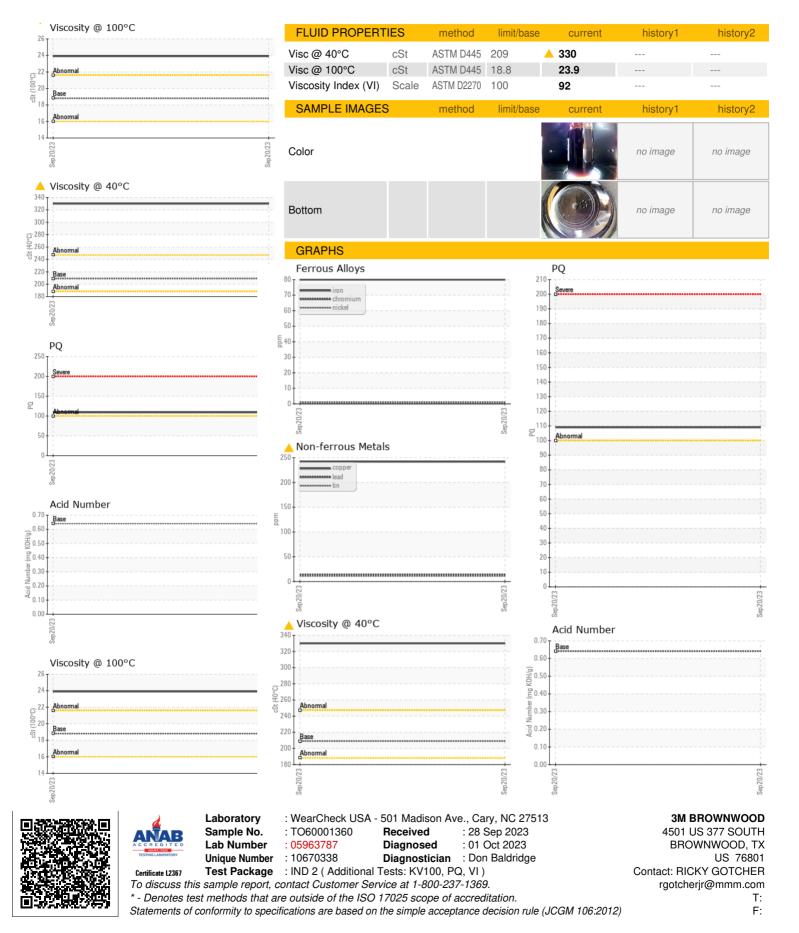
Fluid Condition

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001360		
Sample Date		Client Info		20 Sep 2023		
Machine Age	yrs	Client Info		30		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		109		
Iron	ppm	ASTM D5185m	>200	80		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>50	14		
Copper	ppm	ASTM D5185m	>200	<u> </u>		
Tin	ppm	ASTM D5185m	>10	<u> </u>		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
	le le					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	40	10		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		102		
Phosphorus	ppm	ASTM D5185m	270	223		
Zinc	ppm	ASTM D5185m		28		
Sulfur	ppm	ASTM D5185m	8600	7081		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
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	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT



Contact/Location: RICKY GOTCHER - 3MBBRO