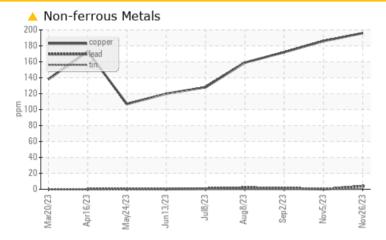


PROBLEM SUMMARY

Area Huntington [Huntington] Oil - Port Reduction Gear Component

Port Reduction Gear Fluid SAE 40W (24 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Copper	ppm	ASTM D5185m	>50	<u> </u>	1 86	▲ 172		

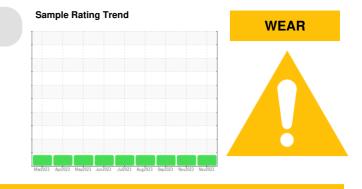
Customer Id: MARCAT Sample No.: WC0804871 Lab Number: 06026624 Test Package: IND 2



To manage this report scan the QR code

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

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Nov 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 Sep 2023 Diag: Doug Bogart



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the

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



08 Aug 2023 Diag: Doug Bogart

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSI

Area Huntington [Huntington] Oil - Port Reduc

Component **Port Reduction Gear** Fluid SAE 40W (24 GAL)

DIAGNOSIS

Recommendation

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

A Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

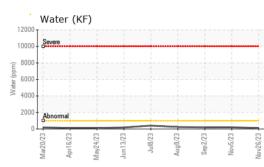
Fluid Condition

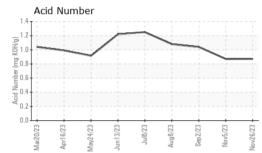
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

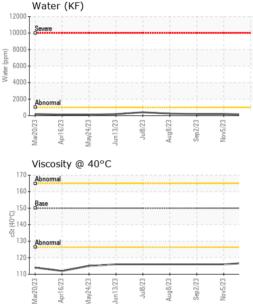
SIS REPC	RT	Samp	le Rating Tre	end		WEAR
luction Ge	ar	M#Z023 Ap		Julioz Anglizz Simploza Merico	23 New2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804871	WC0804876	WC0769076
Sample Date		Client Info		26 Nov 2023	05 Nov 2023	02 Sep 2023
Machine Age	hrs	Client Info		18834	18450	17471
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		- Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	2	2	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	4	0	2
Copper	ppm	ASTM D5185m	>50	▲ 196	▲ 186	▲ 172
Tin	ppm	ASTM D5185m ASTM D5185m	>10	<1 <1	0	0
Vanadium	ppm			< 1 0		
Cadmium	ppm	ASTM D5185m		U	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	6	4
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		92	89	94
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		197	181	201
Calcium	ppm	ASTM D5185m		2153	2036	2192
Phosphorus	ppm	ASTM D5185m		885	807	861
Zinc	ppm	ASTM D5185m		1001	894	981
Sulfur	ppm	ASTM D5185m		2728	2571	3350
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185m	>50	3	2	2
Sodium	ppm ppm	ASTM D5185m	>50	5	5	5
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D510301	>0.1	0.011	0.020	0.019
ppm Water	ppm	ASTM D6304	>1000	118	205.6	194.6
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.872	0.87	1.04



OIL ANALYSIS REPORT

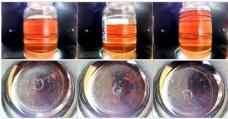




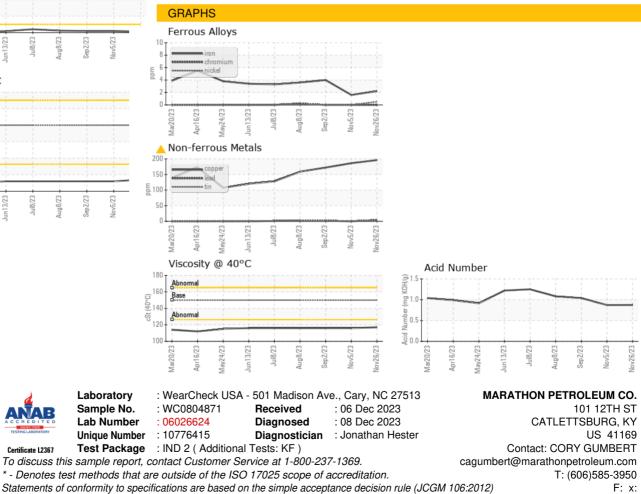


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	117	116	116
SAMPLE IMAGES		method	limit/base	current	history1	history2





Bottom





Submitted By: M/V HUNTINGTON