

# **PROBLEM SUMMARY**

Sample Rating Trend

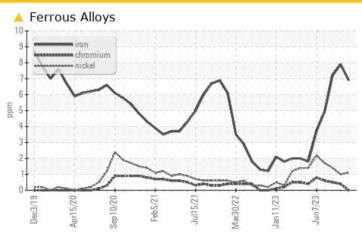
WEAR

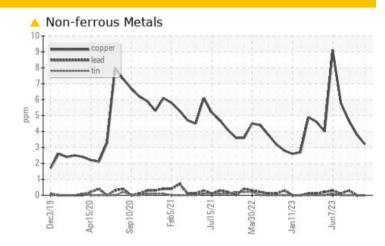
CO-GEN #2

Component **Turbine** 

**MOBIL JET OIL II (120 GAL)** 







## RECOMMENDATION

We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185(m)	>5	<u>^</u> 7	<u></u> 8	<u>^</u> 7		
Copper	nnm	ACTM DE195(m)	- 2	A 2	A 1	A 5		

Customer Id: AVETOR Sample No.: WC0847671 Lab Number: 02588616 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

### RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Contact Required			?	Please contact your representative for information regarding the proper sampling kits for your service.
Alert			?	NOTE: We recommend using IND 3 test kits,

## HISTORICAL DIAGNOSIS

## 10 Sep 2023 Diag: Kevin Marson

11 Aug 2023 Diag: Kevin Marson

10 Jul 2023 Diag: Kevin Marson



We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.Iron ppm levels are abnormal. Copper ppm levels are noted. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. Iron ppm levels are abnormal. Copper ppm levels are noted. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





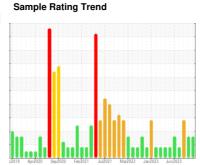
We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit

includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.Copper ppm levels are noted. All other component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further





# **OIL ANALYSIS REPORT**





Machine Id **CO-GEN #2** Component

**Turbine** 

**MOBIL JET OIL II (120 GAL)** 

D	IA(	λN	O:	SI	S
---	-----	----	----	----	---

### Recommendation

We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

### Wear

Iron ppm levels are abnormal. Copper ppm levels are noted.

### Contamination

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

### Fluid Condition

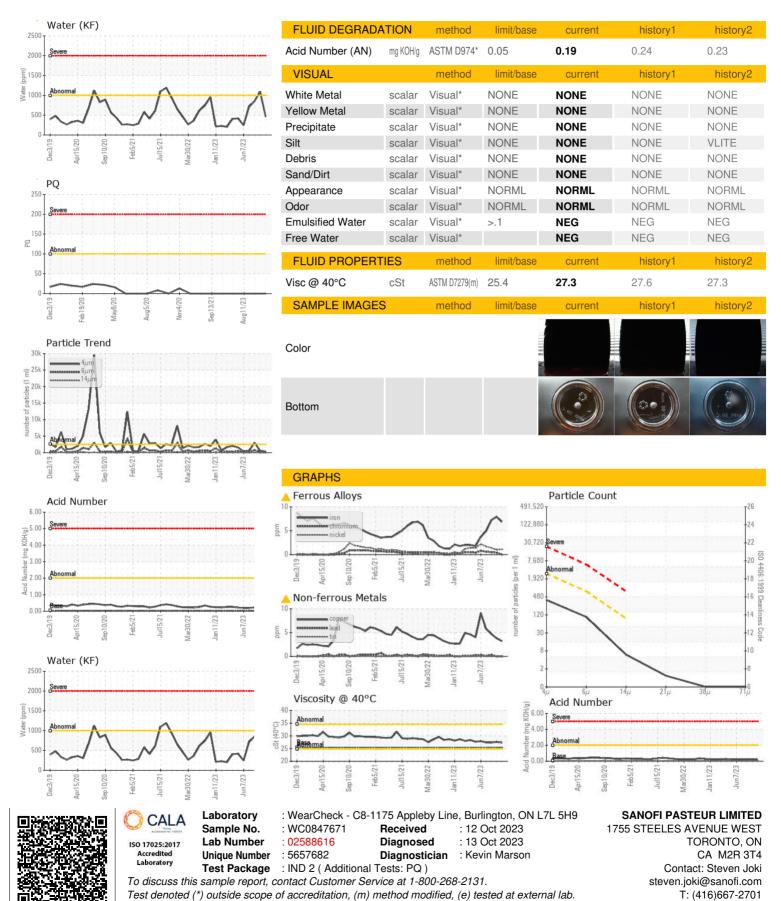
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	c2019 Apr20	20 Sep2020 Feb2021	Jul2021 Mar2022 Jan2023 .	Jun2023	
IATION	method	limit/base	current	history1	history2
	Client Info		WC0847671		WC0781348
					11 Aug 2023
hrs					0
					0
0					N/A
			ABNORMAL	ABNORMAL	ABNORMAL
	method	limit/base	current	history1	history2
	ASTM D8184*		0	0	0
ppm	ASTM D5185(m)	>5	<u>^</u> 7	<u>^</u> 8	<u>^</u> 7
	ASTM D5185(m)	>2	0	<1	<1
	. ,	>2	1	1	1
	,	>2	0	0	0
	ASTM D5185(m)		<1	<1	<1
	ASTM D5185(m)	>2	0	0	0
	ASTM D5185(m)	>4	0	0	<1
	( )	>2		<u> 4</u>	<u>^</u> 5
	. ,		0	0	0
					0
	. ,				0
	( /				0
					0
1216.11		11 11 11	-		
	method	limit/base	current	history1	history2
ppm	ASTM D5185(m)	0.5	<1	2	<1
ppm ppm	ASTM D5185(m)	0.5	0	2	0
	. ,	0.0		0	
ppm	ASTM D5185(m)	0.0	0	0	0
ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 0.0 0.0 0.0	0	0 0 0 <1	0
ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 0.0 0.0	0 0 0	0 0 0	0 0 0
ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 0.0 0.0 0.0	0 0 0	0 0 0 <1	0 0 0
ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0	0 0 0 0 <1	0 0 0 <1 <1	0 0 0 0 0
ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 0.0 3039	0 0 0 0 <1 2265	0 0 0 <1 <1 2384	0 0 0 0 <1 2321
ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 0.0 3039 0.3	0 0 0 0 <1 2265	0 0 0 <1 <1 2384 2	0 0 0 0 <1 2321 2
ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 0.0 3039 0.3	0 0 0 0 <1 2265 <1 4	0 0 0 <1 <1 2384 2 7	0 0 0 0 <1 2321 2 5
ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38	0 0 0 0 <1 2265 <1 4	0 0 0 <1 <1 2384 2 7 <1	0 0 0 0 <1 2321 2 5 <1
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38	0 0 0 0 <1 2265 <1 4 <1	0 0 0 <1 <1 2384 2 7 <1	0 0 0 0 <1 2321 2 5 <1
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38	0 0 0 0 <1 2265 <1 4 <1	0 0 0 <1 <1 2384 2 7 <1 history1	0 0 0 0 <1 2321 2 5 <1 history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38	0 0 0 0 <1 2265 <1 4 <1 current	0 0 0 <1 <1 2384 2 7 <1 history1	0 0 0 0 <1 2321 2 5 <1 history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38	0 0 0 0 <1 2265 <1 4 <1 current	0 0 0 <1 <1 2384 2 7 <1 history1	0 0 0 0 <1 2321 2 5 <1 history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38 limit/base >5 >20 >.1	0 0 0 0 <1 2265 <1 4 <1 current <1 <1 <1	0 0 0 <1 <1 2384 2 7 <1 history1 <1 <1 <1 <1 0.109	0 0 0 0 <1 2321 2 5 <1 history2 <1 <1 <1 <1 0.085
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)	0.0 0.0 0.0 0.0 0.0 3039 0.3 38 limit/base >5 >20 >.1 >1000	0 0 0 0 <1 2265 <1 4 <1 <1 <1 <1 <1 <1 <1 4 4 4 4 4 5 4 4 5 4 4 4 5 4 4 4 4 4 4	0 0 0 0 <1 <1 2384 2 7 <1 history1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	0 0 0 0 0 0 <1 2321 2 5 <1 history2 <1 <1 <1 0.085 857.5
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*	0.0 0.0 0.0 0.0 0.0 3039 0.3 38 Iimit/base >5 >20 >.1 >1000 Iimit/base	0 0 0 0 <1 2265 <1 4 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	0 0 0 <1 <1 2384 2 7 <1 <1 <1 <1 <1 0.109 1092.1 history1	0 0 0 0 <1 2321 2 5 <1 history2 <1 <1 <1 0.085 857.5
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*  method ASTM D6304*	0.0 0.0 0.0 0.0 0.0 3039 0.3 38   limit/base >5 >20 >.1 >1000   limit/base >2500	0 0 0 0 <1 2265 <1 4 <1 <1 <1 <1 <1 <1 0.045 459.5 current	0 0 0 <1 <1 <1 2384 2 7 <1 history1 <1 <1 <1 0.109 1092.1 history1 550	0 0 0 0 <1 2321 2 5 <1 <1 <1 <1 <1 <1 0.085 857.5 history2 ▲ 2996
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647	0.0 0.0 0.0 0.0 0.0 3039 0.3 38  limit/base >5 >20 >.1 >1000 limit/base >2500 >640 >80	0 0 0 0 <1 2265 <1 4 <1 current <1 <1 0.045 459.5 current 329 90	0 0 0 <1 <1 2384 2 7 <1 history1 <1 <1 <1 0.109 1092.1 history1 550 123	0 0 0 0 <1 2321 2 5 <1 history2 <1 <1 <1 <1 0.085 857.5 history2 ▲ 2996 ▲ 731
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647	0.0 0.0 0.0 0.0 0.0 3039 0.3 38  limit/base >5 >20 >.1 >1000 limit/base >2500 >640 >80	0 0 0 0	0 0 0 <1 <1 2384 2 7 <1 history1 <1 <1 <1 0.109 1092.1 history1 550 123 8	0 0 0 0 0 0 0 1 2321 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D6304*  ASTM D6304*  ASTM D6304*  ASTM D7647  ASTM D7647  ASTM D7647	0.0 0.0 0.0 0.0 0.0 3039 0.3 38  limit/base >5 >20 >.1 >1000 limit/base >2500 >640 >80 >20 >4	0 0 0 0 <1 2265 <1 4 <1 <1 <1 <1 <1 <1 0.045 459.5 current 329 90 5	0 0 0 <1 <1 2384 2 7 <1 history1 <1 <1 <1 0.109 1092.1 history1 550 123 8 3	0 0 0 0 0 0 0 1 2321 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info hrs Client Info Client Info Client Info Client Info Client Info  Mastm D8184*  Dem ASTM D5185(m)  Dem ASTM D5185(m)	Client Info	Client Info Client Info Client Info Client Info O hrs Client Info O N/A ABNORMAL   method limit/base current  ASTM D5185(m) >5	Client Info         WC0847671         WC0847661           Client Info         10 Oct 2023         10 Sep 2023           hrs         Client Info         0         0           hrs         Client Info         0         0           Client Info         N/A         N/A           ABNORMAL         ABNORMAL           method limit/base current history1           ASTM D8184*         0         0           ppm ASTM D5185(m) >5         ↑         ↑         ♠           ppm ASTM D5185(m) >2         0         <1

Contact/Location: Steven Joki - AVETOR



# **OIL ANALYSIS REPORT**



Validity of results and interpretation are based on the sample and information as supplied.

F: (416)667-2720