

PROBLEM SUMMARY

Sample Rating Trend

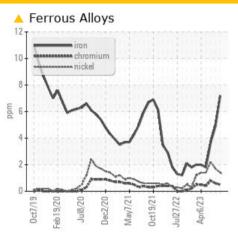


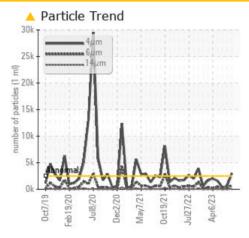
CO-GEN #2

Turbine

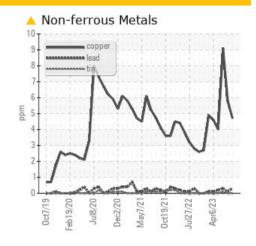
MOBIL JET OIL II (120 GAL)

COMPONENT CONDITION SUMMARY





Oil Cleanliness



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ATTENTION	ABNORMAL			
Iron	ppm	ASTM D5185(m)	>5	<u>^</u> 7	5	4			
Copper	ppm	ASTM D5185(m)	>2	<u> </u>	<u></u> 6	<u> </u>			
Particles >4µm		ASTM D7647	>2500	2996	575	366			
Particles >6um		ASTM D7647	>640	731	155	88			

ISO 4406 (c) >18/16/13 **19/17/13** 16/14/11 16/14/10

Customer Id: AVETOR Sample No.: WC0781348 Lab Number: 02575916 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
Change Filter			?	We recommend you service the filters on this component.
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 Jul 2023 Diag: Kevin Marson

WEAR



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 service.



07 Jun 2023 Diag: Kevin Marson

WEAR



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 abnormal. Nickel ppm levels are marginal. 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.



09 May 2023 Diag: Kevin Marson

WEAR



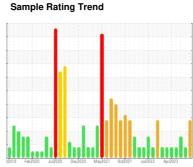
We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of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





OIL ANALYSIS REPORT

DODT



WEAR



CO-GEN #2

Turbine

MOBIL JET OIL II (120 GAL)

DIAGNOSIS

Recommendation

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.

Wear

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

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

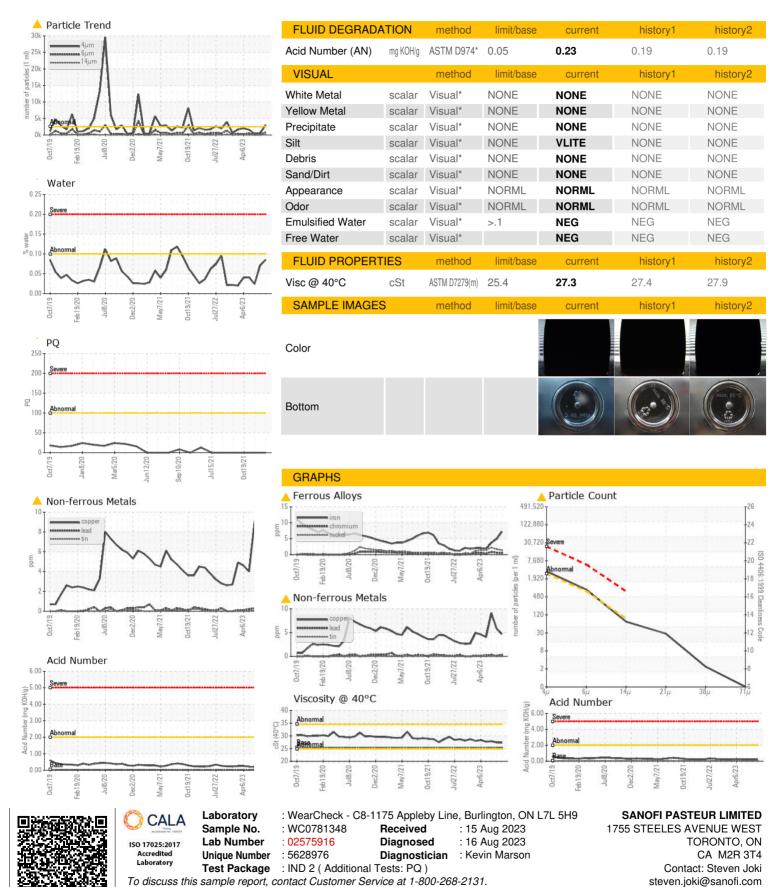
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

t2013 Feb2020 Ju2020 Oex2020 Min/2021 Oct2021 Ju2022 Apr2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0781348	WC0781351	WC0781353	
Sample Date		Client Info		11 Aug 2023	10 Jul 2023	07 Jun 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184*		0			
Iron	ppm	ASTM D5185(m)	>5	<u>^</u> 7	5	4	
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	<1	
Nickel	ppm	ASTM D5185(m)	>2	1	2	<u>^</u> 2	
Titanium	ppm	ASTM D5185(m)	>2	0	0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0	
Aluminum	ppm	ASTM D5185(m)	>2	0	<1	<1	
_ead	ppm	ASTM D5185(m)	>4	<1	<1	<1	
Copper	ppm	ASTM D5185(m)	>2	<u>^</u> 5	<u>^</u> 6	<u> </u>	
Γin	ppm	ASTM D5185(m)		0	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	<1	
/anadium	ppm	ASTM D5185(m)		0	0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	0	
	ррпп	` '		ŭ			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0.5	<1	<1	<1	
Barium	ppm	ASTM D5185(m)	0.0	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	0	
Manganese	ppm	ASTM D5185(m)	0.0	0	0	0	
Magnesium	ppm	ASTM D5185(m)	0.0	0	0	<1	
Calcium	ppm	ASTM D5185(m)	0.0	<1	1	0	
Phosphorus	ppm	ASTM D5185(m)	3039	2321	2399	2331	
Zinc	ppm	ASTM D5185(m)	0.3	2	2	<1	
Sulfur	ppm	ASTM D5185(m)	38	5	4	5	
_ithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>5	<1	<1	<1	
Sodium	ppm	ASTM D5185(m)		<1	<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1	
Vater	%	ASTM D6304*	>.1	0.085	0.071	0.024	
opm Water	ppm	ASTM D6304*	>1000	857.5	710.6	245.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>2500	2996	575	366	
Particles >6µm		ASTM D7647	>640	^ 731	155	88	
Particles >14µm		ASTM D7647	>80	63	14	7	
Particles >21µm		ASTM D7647	>20	25	3	3	
Particles >38µm		ASTM D7647	>4	2	0	0	
Particles >71µm		ASTM D7647		0	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	△ 19/17/13	16/14/11	16/14/10	
55.26\ Ray: 1		100 4-100 (0)	× 10/ 10/ 10		ocation: Steven		

Contact/Location: Steven Joki - AVETOR



OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

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

T: (416)667-2701

F: (416)667-2720