

PROBLEM SUMMARY

Sample Rating Trend

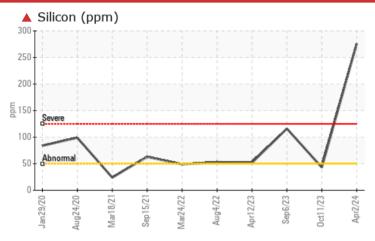


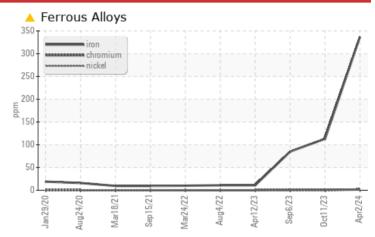
MILLING C-132

Component Gearbox

MOBIL SHC 630 (--- LTR)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>200	4 337	113	85		
Silicon	ppm	ASTM D5185m	>50	276	43	▲ 116		
Silt	scalar	*Visual	NONE	MODER	NONE	NONE		

Customer Id: POEGRO **Sample No.:** WC0919952 Lab Number: 06138531 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 ihester@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

HISTORICAL DIAGNOSIS

11 Oct 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



DIPT



06 Sep 2023 Diag: Doug Bogart

We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. High concentration of visible metal present. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



DIRT



12 Apr 2023 Diag: Doug Bogart

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



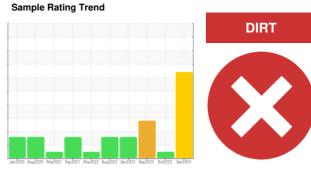


OIL ANALYSIS REPORT

MILLING C-132

Component **Gearbox**

MOBIL SHC 630 (--- LTR)



DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

Gear wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate amount of visible silt present in the sample.

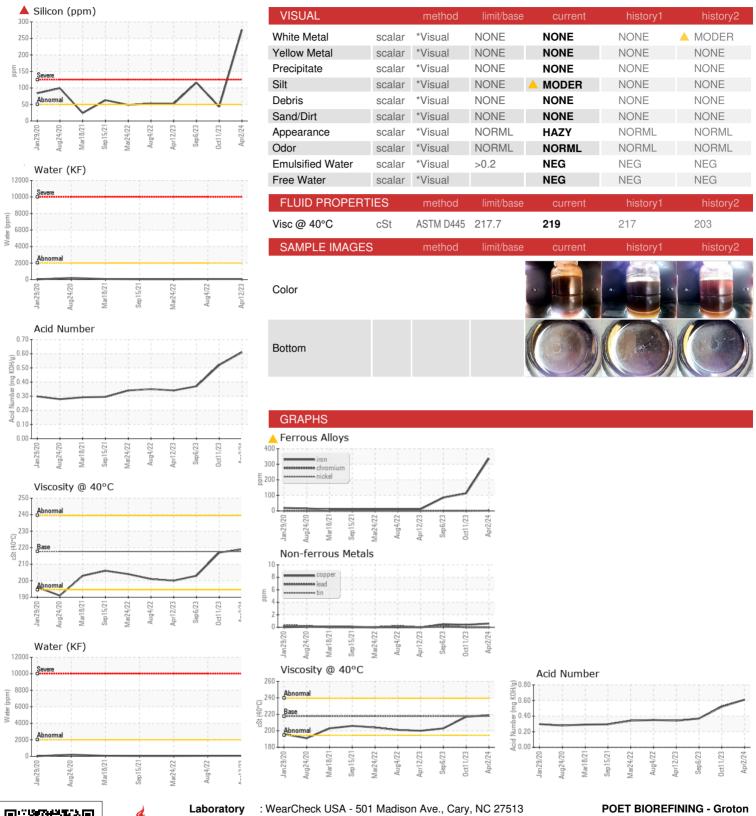
Fluid Condition

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

		Jan2020 Aug2	020 Mar2021 Sep2021 Mar	2022 Aug2022 Apr2023 Sep2023 Oct	2023 Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0919952	WC0866663	WC0854667
Sample Date		Client Info		02 Apr 2024	11 Oct 2023	06 Sep 2023
Machine Age	mths	Client Info		12	12	3
Oil Age	mths	Client Info		0	1	3
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4 337	113	85
Chromium	ppm	ASTM D5185m	>15	2	<1	<1
Nickel	ppm	ASTM D5185m	>15	2	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	3
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		3	1	2
Magnesium	ppm	ASTM D5185m		2	0	2
Calcium	ppm	ASTM D5185m		9	2	6
Phosphorus	ppm	ASTM D5185m		404	478	458
Zinc	ppm	ASTM D5185m		2	0	6
Sulfur	ppm	ASTM D5185m		0	36	164
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	276	43	<u> </u>
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m		2	<1	0
Water	%	ASTM D6304		NEG	NEG	NEG
ppm Water	ppm	ASTM D6304	>2000			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		189109	
Particles >6µm		ASTM D7647	>5000		126191	
Particles >14μm		ASTM D7647	>640		1666	
Particles >21µm		ASTM D7647	>160		101	
Particles >38µm		ASTM D7647	>40		3	
Particles >71μm		ASTM D7647	>10		2	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		25/24/18	
FLUID DEGRADA	NOIT	method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.52	0.37



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

: WC0919952 : 06138531 Unique Number: 10963339

Received : 04 Apr 2024 **Tested** Diagnosed

: 09 Apr 2024 : 09 Apr 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount) 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.

T: 6(05)846-6863 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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