

PROBLEM SUMMARY

Sample Rating Trend

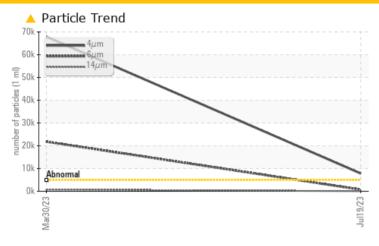
ISO

300 - 75% PRODUCT LIQUOR 1 NORTH

Pump Fluid

MOBIL SHC 626 (1 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Analytical Ferrography: Results are normal with typical amounts of ferrous rubbing wear and contamination present.

PROBLEMATIC TEST	T RESULTS				
Sample Status			ATTENTION	ABNORMAL	
Particles >4μm	ASTM D7647	>5000	A 7808	<u>▲</u> 67921	
Oil Cleanliness	ISO 4406 (c)	\19/17/1 <i>A</i>	A 20/17/12	A 23/22/17	

Customer Id: GRAMAC Sample No.: WC0824333 Lab Number: 05904963 Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:

Aaron Black +1

aaron.black@wearcheck.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.

HISTORICAL DIAGNOSIS

30 Mar 2023 Diag: Aaron Black



We recommend you service the filters on this component (as applicable). Resample at the next service interval to monitor. Analytical Ferrography: Wear and contamination are low, with typical levels of contamination and ferrous rubbing wear present. The particle count may be elevated by the presence of a polymer in the lubricant - this does not appear to be a degradation component and is more likely a contaminant, possibly product contamination. The polymer is likely not represented in true contamination amounts on the ferrogram due to the lack of wear to catch a commensurate amount. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

300 - 75% PRODUCT LIQUOR 1 NORTH Component

Pump

MOBIL SHC 626 (1 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Analytical Ferrography: Results are normal with typical amounts of ferrous rubbing wear and contamination present.

Wear

All component wear rates are normal. The analytical ferrographic results are normal indicating no abnormal wear in the system.

Contaminants

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

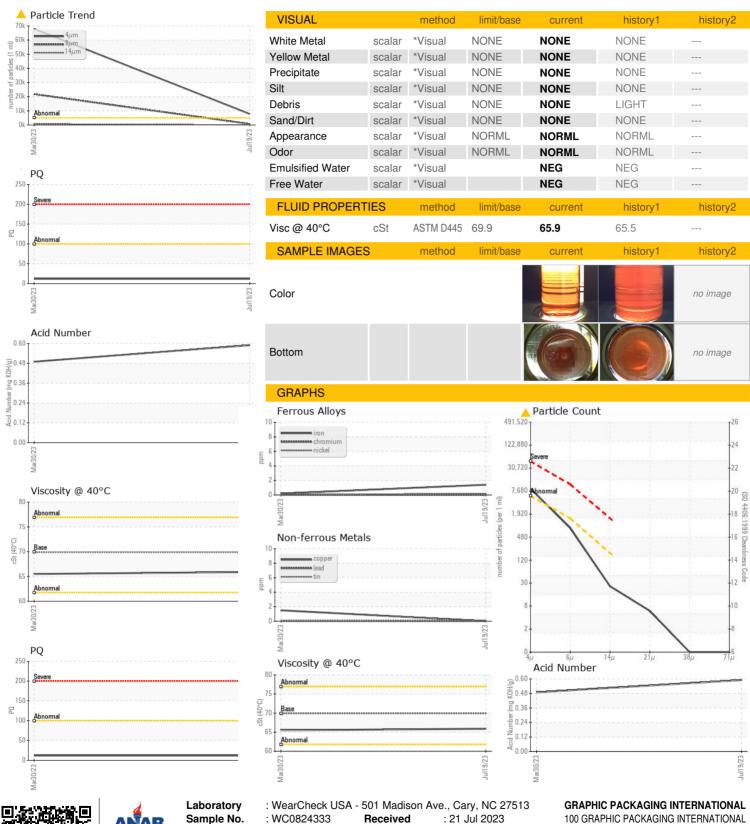
Oil Condition

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

			Mar2023	Jui2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824333	WC0783650	
Sample Date		Client Info		19 Jul 2023	30 Mar 2023	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		3	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	12	
Iron	ppm	ASTM D5185m	>90	1	<1	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>7	0	0	
Lead	ppm	ASTM D5185m	>12	0	0	
Copper	ppm	ASTM D5185m	>30	0	2	
Tin	ppm	ASTM D5185m	>9	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	1	
Phosphorus	ppm	ASTM D5185m		465	455	
Zinc	ppm	ASTM D5185m		0	2	
Sulfur	ppm	ASTM D5185m		0	378	
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	5	10	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	7808	▲ 67921	
Particles >6µm		ASTM D7647	>1300	730	<u>▲</u> 21786	
Particles >14μm		ASTM D7647	>160	22	<u></u> 41 ∧	
Particles >21µm		ASTM D7647	>40	5	<u>▲</u> 62	
Particles >38μm		ASTM D7647	>10	0	7	
Particles >71μm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/12	<u>△</u> 23/22/17	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: WC0824333 : 05904963 : 10566319

Received Diagnosed

: 03 Aug 2023 : Aaron Black Diagnostician Test Package : PLANT (Additional Tests: A-FERR)

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. 100 GRAPHIC PACKAGING INTERNATIONAL

MACON, GA US 31206

Contact: DARYL SPRINGER daryl.springer@graphicpkg.com T: (478)784-3677

Submitted By: DARYL SPRINGER

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



FERROGRAPHY REPORT

300 - 75% PRODUCT LIQUOR 1 NORTH

Pump Fluid

MOBIL SHC 626 (1 GAL)









FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2	2	
Ferrous Sliding	Scale 0-10	*ASTM D7684			1	
Ferrous Cutting	Scale 0-10	*ASTM D7684				
Ferrous Rolling	Scale 0-10	*ASTM D7684				
Ferrous Break-in	Scale 0-10	*ASTM D7684				
Ferrous Spheres	Scale 0-10	*ASTM D7684				
Ferrous Black Oxides	Scale 0-10	*ASTM D7684				
Ferrous Red Oxides	Scale 0-10	*ASTM D7684				
Ferrous Corrosive	Scale 0-10	*ASTM D7684				
Ferrous Other	Scale 0-10	*ASTM D7684				
Nonferrous Rubbing	Scale 0-10	*ASTM D7684				
Nonferrous Sliding	Scale 0-10	*ASTM D7684				
Nonferrous Cutting	Scale 0-10	*ASTM D7684				
Nonferrous Rolling	Scale 0-10	*ASTM D7684				
Nonferrous Other	Scale 0-10	*ASTM D7684				
Carbonaceous Material	Scale 0-10	*ASTM D7684				
Lubricant Degradation	Scale 0-10	*ASTM D7684				
Sand/Dirt	Scale 0-10	ASTM D7684				
Fibres	Scale 0-10	*ASTM D7684				
Spheres	Scale 0-10	*ASTM D7684				
Other	Scale 0-10	*ASTM D7684		2	2	

WEAR

All component wear rates are normal. The analytical ferrographic results are normal indicating no abnormal wear in the system.

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