

PROBLEM SUMMARY

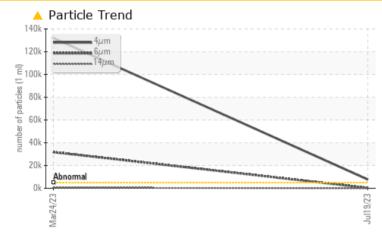
Sample Rating Trend

342 - COMBINED CONDENSATE

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 RESULTS

Sample Status		ATTENTION	SEVERE	
Particles >4µm	ASTM D7647 >5000	<u> </u>	131992	
Oil Cleanliness	ISO 4406 (c) >19/17/1	4 🔺 20/15/10	• 24/22/16	

Customer Id: GRAMAC Sample No.: WC0824320 Lab Number: 05904970 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

24 Mar 2023 Diag: Aaron Black



Resample in 30-45 days to monitor this situation. Analytical Ferrography: Results show an abnormal amount of ferrous rubbing wear with no apparent source; viscosity is within tolerance and no degradation byproducts are evident. This suggests that excessive wear may be a result of a mechanical problem such as soft foot or misalignment. Suggest checking/verifying system with vibration equipment (if possible) and correcting if possible. Another possibility is viscosity that is too low for ambient temperatures; suggesting checking manufacturers viscosity requirements for ambient temperature and ensuring they are being met. Wear particle analysis indicates that the ferrous rubbing particles are abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

342 - COMBINED CONDENSATE Component

Pump Fluid

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.

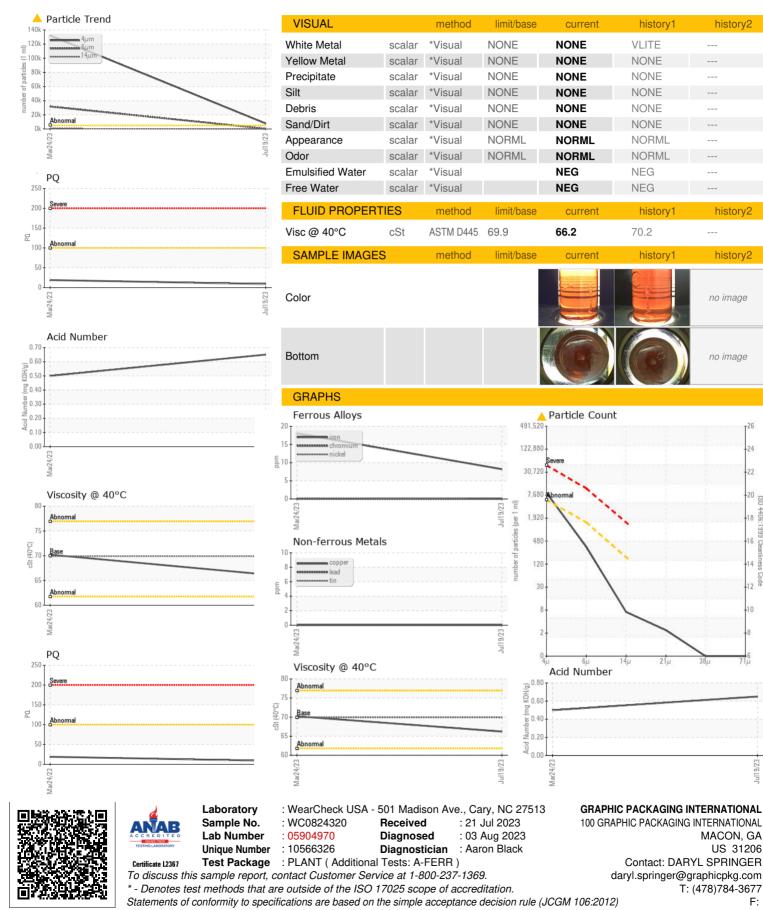
Oil Condition

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

			Mar2023	Jul2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824320	WC0783647	
Sample Date		Client Info		19 Jul 2023	24 Mar 2023	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		4	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ATTENTION	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9	19	
Iron	ppm	ASTM D5185m	>90	8	18	
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	<1	
Lead	ppm	ASTM D5185m	>12	0	0	
Copper	ppm	ASTM D5185m	>30	0	0	
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	
Nolybdenum	ppm	ASTM D5185m		0	0	
Vanganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		436	421	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	1	2	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 7709	• 131992	
Particles >6µm		ASTM D7647	>1300	301	i 31749	
Particles >14µm		ASTM D7647	>160	6	4 87	
Particles >21µm		ASTM D7647	>40	2	6 9	
Particles >38µm		ASTM D7647	>10	0	5	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/10	24/22/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.65	0.50	
· · ·						



OIL ANALYSIS REPORT



Submitted By: DARYL SPRINGER

21

history1

history

history1

history2

history

history2

no image

no image

4406

:1999 Cle

14

Page 4 of 6

MACON, GA

T: (478)784-3677

US 31206

F:



Machine Id **342 - COMBINED CONDENSATE** Component

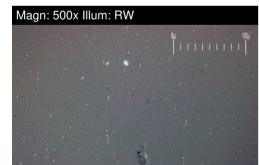
Pump Fluid MOBIL SHC 626 (1 GAL)



Magn: 500x Illum: RW



FERROGRAPHY		method	limit/base	current	his	story1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2		5	
Ferrous Sliding	Scale 0-10	*ASTM D7684					
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		3	



Magn: 100x Illum: RW



WEAR

All component wear rates are normal. The analytical ferrographic results are normal indicating no abnormal wear in the system. This page left intentionally blank