

Sample Rating Trend

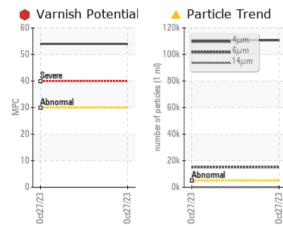


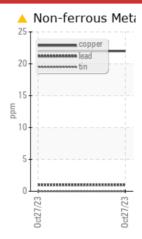
# INJECTION MOLDING TOTE MOLDER 2 - GLOV/WARNER

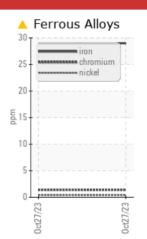
Hydraulic System

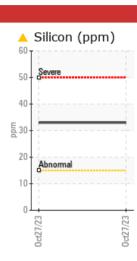
AW HYDRAULIC OIL ISO 46 (275 GAL)

## COMPONENT CONDITION SUMMARY









### RECOMMENDATION

We recommend that you use depth filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. We recommend an early resample to monitor this condition.

# PROBLEMATIC TEST RESULTS

THOBELINATIO TEST HESSETS									
Sample Status				SEVERE					
Iron	ppm	ASTM D5185m	>20	<u> </u>					
Copper	ppm	ASTM D5185m	>20	<b>A</b> 22					
Silicon	ppm	ASTM D5185m	>15	<mark>/</mark> 33					
Particles >4µm		ASTM D7647	>5000	<b>A</b> 110771					
Particles >6µm		ASTM D7647	>1300	<u> </u>					
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4/21/14</b>					
MPC Varnish Potential	Scale	ASTM D7843	>15	<b>•</b> 54					

Customer Id: YVEWAU Sample No.: PCA0107521 Lab Number: 05997348 Test Package: PLANT



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Filter Fluid			?	We recommend that you use electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level.		

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



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# Machine Id INJECTION MOLDING TOTE MOLDER 2 - GLOV/WARNER

Hydraulic System

AW HYDRAULIC OIL ISO 46 (275 GAL)

### DIAGNOSIS

#### Recommendation

We recommend that you use depth filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. We recommend an early resample to monitor this condition.

#### 📥 Wear

Copper and iron ppm levels are abnormal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. Elemental level of silicon (Si) above normal.

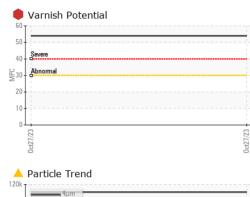
#### Fluid Condition

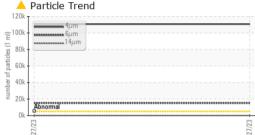
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

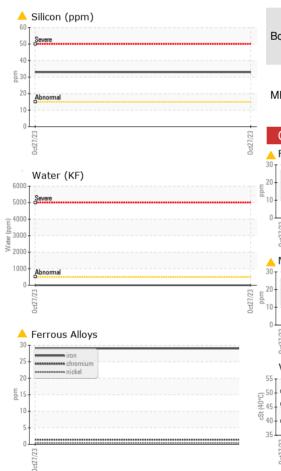
				0ct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107521		
Sample Date		Client Info		27 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	1		
Copper	ppm	ASTM D5185m	>20	<u> </u>		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<1		
Barium	ppm	ASTM D5185m	5	10		
Molybdenum	ppm	ASTM D5185m	5	2		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	13		
Calcium	ppm	ASTM D5185m	200	119		
Phosphorus	ppm	ASTM D5185m	300	313		
Zinc	ppm	ASTM D5185m	370	293		
Sulfur	ppm	ASTM D5185m	2500	2155		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>A</b> 33		
Sodium	ppm	ASTM D5185m		29		
Potassium	ppm	ASTM D5185m	>20	8		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 110771		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	84		
Particles >21µm		ASTM D7647	>40	12		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 24/21/14		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.34		
MPC Varnish Potential	0 0	ASTM D7843	>15	<b>5</b> 4		
	00010			<b>•</b> • •		

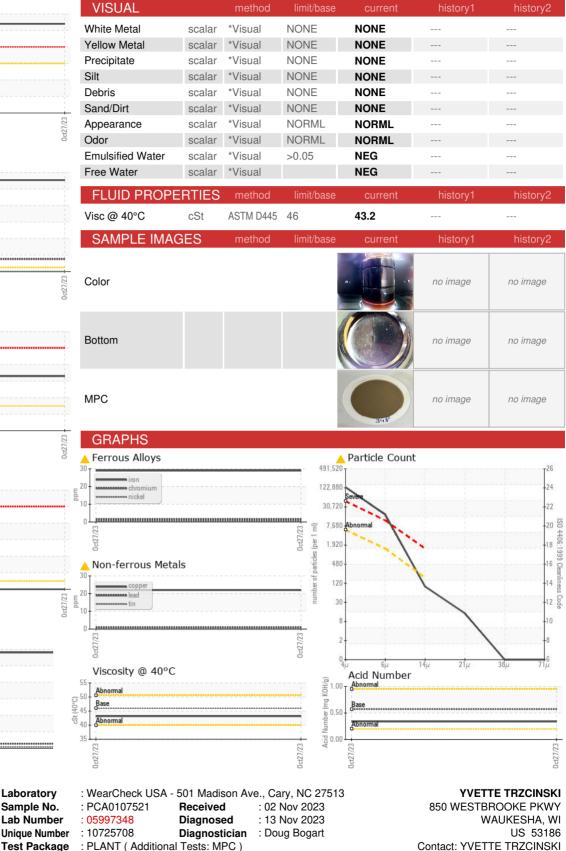


# **OIL ANALYSIS REPORT**









Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

To discuss this sample report, contact Customer Service at 1-800-237-1369.

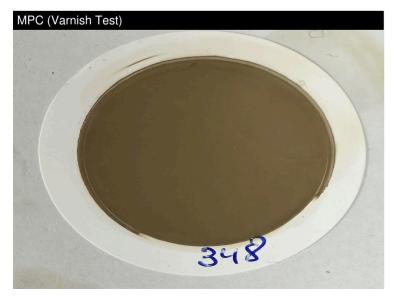
\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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Report Id: YVEWAU [WUSCAR] 05997348 (Generated: 11/16/2023 08:19:23) Rev: 1

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