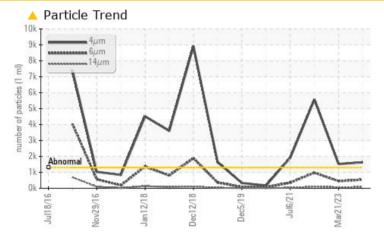


PROBLEM SUMMARY

Area West Molding Machine Id **129 (S/N 2795703)** Component

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (602 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >1300 1626 1522 ▲ 5570 -Particles >6µm ASTM D7647 >160 538 451 **970** ASTM D7647 >20 Particles >14µm 77 64 **1**01 Particles >21µm ASTM D7647 >4 **21 2**1 ▲ 32 **Oil Cleanliness** ISO 4406 (c) >17/14/11 🔺 18/16/13 🔺 18/16/13 🔺 20/17/14

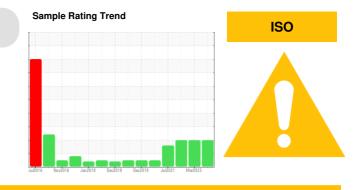
Customer Id: JOHHOL Sample No.: RP0034696 Lab Number: 05962217 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Resample			?	We recommend an early resample to monitor this condition.				
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.				
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				

HISTORICAL DIAGNOSIS



21 Mar 2023 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor.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.





12 Sep 2022 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.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.

06 Jul 2021 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.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.



view report





OIL ANALYSIS REPORT

Area West Molding Machine Id **129 (S/N 2795703)** Component

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (602 GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

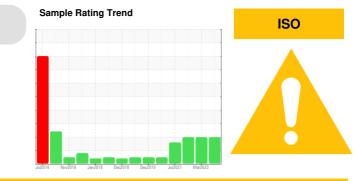
All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

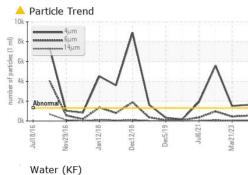
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

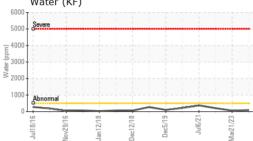


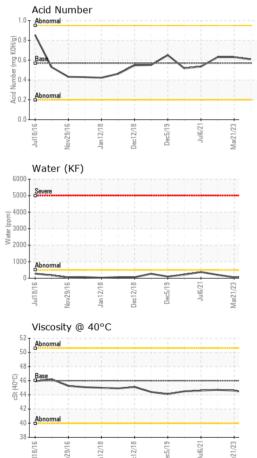
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034696	RP0026018	RP0025409
Sample Date		Client Info		16 Sep 2023	21 Mar 2023	12 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	12	14	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	<1	2	<1
Copper	ppm	ASTM D5185m	>20	4	5	3
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm			0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m	5	<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	5	4	5
Calcium	ppm			53	46	48
Phosphorus	ppm	ASTM D5185m	300	288	328	329
Zinc	ppm	ASTM D5185m		354	372	352
CONTAMINANTS	ppin	method	limit/base			
				current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	<1
Sodium	ppm	ASTM D5185m	00	7	4	3
Potassium	ppm	ASTM D5185m	>20	2	3	1
Water ppm Water	% ppm	ASTM D6304 ASTM D6304		0.008 87.8	0.005 56.1	0.020 208.2
FLUID CLEANLIN		method	limit/base			
	200	ASTM D7647		current 1626 	history1	history2 ▲ 5570
Particles >4µm			>1300		▲ 1522 ▲ 451	
Particles >6µm		ASTM D7647		▲ 538		▲ 970 ▲ 101
Particles >14µm		ASTM D7647	>20	▲ 77 ▲ 01	▲ 64	▲ 101
Particles >21µm		ASTM D7647		▲ 21 1	▲ 21 2	▲ 32
Particles >38µm		ASTM D7647	>3	1	2	2
Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >17/14/11	0 1 8/16/13	0	0
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.63	0.63
ACIU MUTTIDEL (AIN)	nin voula	AO I IVI DOU45	0.57	0.01	0.03	0.03



OIL ANALYSIS REPORT

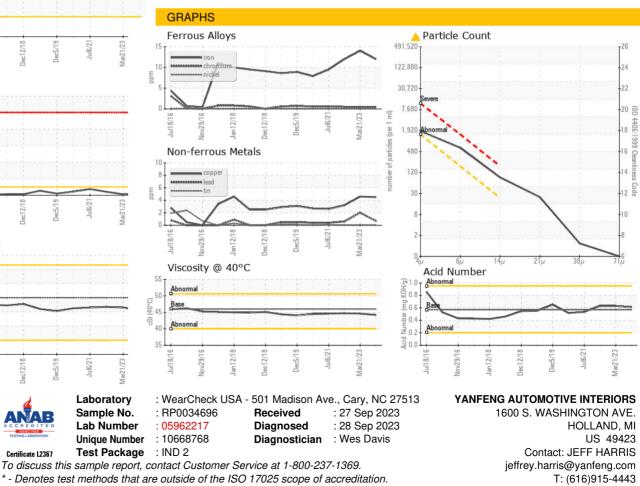






VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	current	Thistory	TIStory2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.6	44.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Detterre				Car		

Bottom



* - 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)

Submitted By: JEFF HARRIS

Page 4 of 4

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