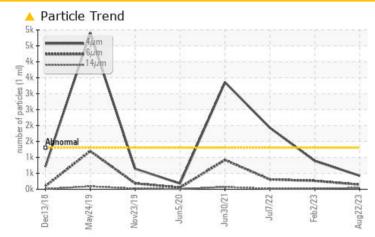


PROBLEM SUMMARY

Area West Molding 150-2 (S/N 215627-2) Component

Hydraulic System Fluid SHELL TELLUS 46 (793 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.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ATTENTION	ATTENTION		
Particles >14µm	ASTM D7647	>20	<u> </u>	A 21	17		
Particles >21µm	ASTM D7647	>4	A 13	 7	5		
Oil Cleanliness	ISO 4406 (c)	>17/15/11	<u> </u>	🔺 17/15/12	▲ 18/15/11		

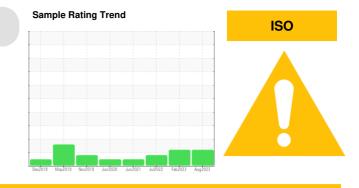
Customer Id: JOHHOL Sample No.: RP0034643 Lab Number: 05934883 Test Package: IND 2



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.
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



02 Feb 2023 Diag: Don Baldridge

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 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

07 Jul 2022 Diag: Don Baldridge



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

30 Jun 2021 Diag: Angela Borella



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





OIL ANALYSIS REPORT

Area West Molding Machine Id 150-2 (S/N 215627-2)

Hydraulic System Fluid SHELL TELLUS 46 (793 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.

Wear

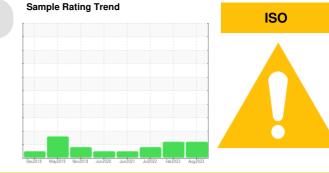
All component wear rates are normal.

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

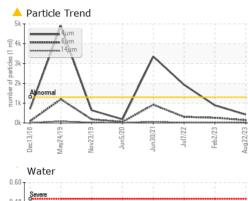
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

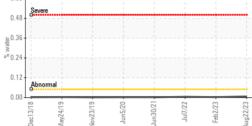


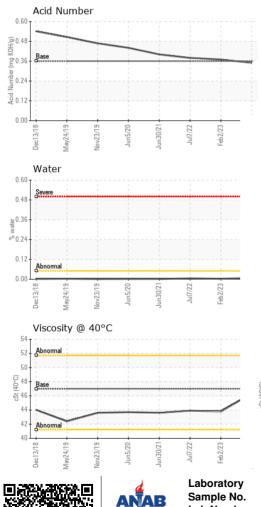
Sample Number Client Info PP0034643 RP0030215 RP0021582 Sample Date Nrs Client Info 0 0 0 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Age Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 ATTENTION WEAR METALS method limit/base current history1 n Iron ppm ASTM 05185m >20 0 0 0 Kirkel ppm ASTM 05185m >20 0 0 1 Lead ppm ASTM 05185m >20 0 0 Autimium ppm ASTM 05185m >20 0 0 1 Lead ppm ASTM 05185m </th <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Magnesium ppm ASTM D5185m 11 1 2 2 Calcium ppm ASTM D5185m 35 31 32 34 Phosphorus ppm ASTM D5185m 266 310 322 337 Zinc ppm ASTM D5185m 276 410 414 439 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 0 <1	Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
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Phosphorus ppm ASTM D5185m 266 310 322 337 Zinc ppm ASTM D5185m 276 410 414 439 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 0 <1 Sodium ppm ASTM D5185m >15 0 0 <1 Sodium ppm ASTM D5185m >20 2 1 1 Water % ASTM D6304 >0.05 0.007 0.003 0.005 ppm Water ppm ASTM D6304 >500 74.9 32.1 53.5 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 425 888 1928 Particles >14µm ASTM D7647 >320 145 262 307 Particles >21µm ASTM D7647 >3 1	Magnesium	ppm	ASTM D5185m	11	1	2	2
Zinc ppm ASTM D5185m 276 410 414 439 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 0 <1 Sodium ppm ASTM D5185m >15 0 0 <1 Sodium ppm ASTM D5185m >20 2 1 1 Water % ASTM D6304 >0.05 0.007 0.003 0.005 ppm Water ppm ASTM D6304 >500 74.9 32.1 53.5 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 425 888 1928 Particles >6µm ASTM D7647 >20 411 21 17 Particles >1µm ASTM D7647 >30 145 262 307 Particles >21µm ASTM D7647 33 1 1 <	Calcium	ppm	ASTM D5185m	35	31	32	34
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Silicon ppm ASTM D5185m >15 0 0 <1 Sodium ppm ASTM D5185m >20 2 1 1 Potassium ppm ASTM D5185m >20 2 1 1 Water % ASTM D6304 >0.05 0.007 0.003 0.005 ppm Water ppm ASTM D6304 >500 74.9 32.1 53.5 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 425 888 1928 Particles >6µm ASTM D7647 >20 41 21 17 Particles >1µm ASTM D7647 >20 41 21 17 Particles >21µm ASTM D7647 >3 1 0 0 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/15/11 16/14/13 17/15/12 18/15/11 FLUID DEGRADATION method limit/base current history1 <td>Zinc</td> <td>ppm</td> <td>ASTM D5185m</td> <td>276</td> <th>410</th> <td>414</td> <td>439</td>	Zinc	ppm	ASTM D5185m	276	410	414	439
Sodium ppm ASTM D5185m 0 0 0 Potassium ppm ASTM D5185m<>20 2 1 1 Water % ASTM D5185m<>20 2 1 1 Water % ASTM D6304 >0.05 0.007 0.003 0.005 ppm Water ppm ASTM D6304 >500 74.9 32.1 53.5 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 425 888 1928 Particles >6µm ASTM D7647 >32.0 145 262 307 Particles >14µm ASTM D7647 >20 41 21 17 Particles >21µm ASTM D7647 >3 1 0 0 Particles >38µm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >17/15/11 16/14/13 17/15/12 18/15/11 FLUID DEGRADATION	CONTAMINANTS		method	limit/base	current	history1	history2
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Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/15/11 ▲ 16/14/13 ▲ 17/15/12 ▲ 18/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>4	<u> </u>	<u> </u>	5
Oil Cleanliness ISO 4406 (c) >17/15/11 ▲ 16/14/13 ▲ 17/15/12 ▲ 18/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>3	1	1	0
Oil Cleanliness ISO 4406 (c) >17/15/11 16/14/13 17/15/12 18/15/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>3	0	0	0
			ISO 4406 (c)	>17/15/11	16/14/13	▲ 17/15/12	▲ 18/15/11
Acid Number (AN) mg KOH/g ASTM D8045 0.36 0.35 0.37 0.38	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.35		



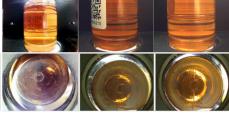
OIL ANALYSIS REPORT



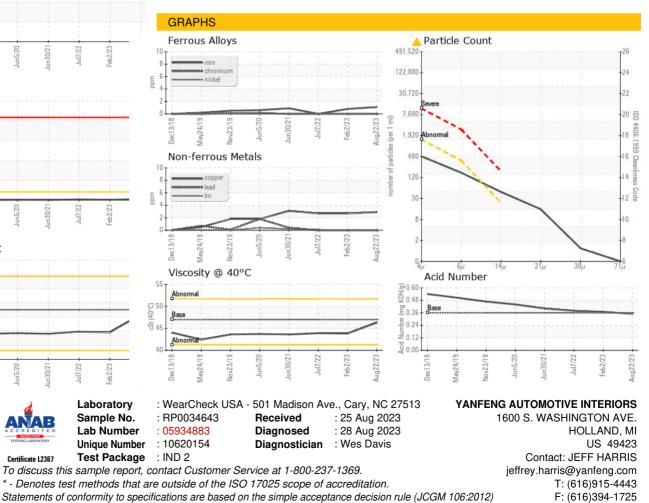




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.99	46.3	43.8	43.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						



Bottom



Submitted By: JEFF HARRIS

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