

PROBLEM SUMMARY

Area **DERRY TOWNSHIP** Machine Id **1A - DERRY TOWNSHIP** Component

Hydraulic System Fluid SHELL OMALA S4 GX 220 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	🔺 16168		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	<u> </u>		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 23/21/17		
Visc @ 40°C	cSt	ASTM D445	230	<u> </u>	218	

Customer Id: MOTYOR Sample No.: WC0774463 Lab Number: 05750756 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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 if applicable.		

HISTORICAL DIAGNOSIS

01 Oct 2020 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is severe. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

DERRY TOWNSHIP **1A - DERRY TOWNSHIP** Component

Hydraulic System SHELL OMALA S4 GX 220 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	16	240	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>20	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	<1	
Copper	ppm	ASTM D5185m	>20	0	<1	
Tin	ppm	ASTM D5185m	>20	0	0	
Antimony	ppm	ASTM D5185m			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	2	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		1	10	
Calcium	ppm	ASTM D5185m		67	966	
Phosphorus	ppm	ASTM D5185m		216	1328	
Zinc	ppm	ASTM D5185m		11	17	
Sulfur	ppm	ASTM D5185m		5941	482	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	12	
Sodium	ppm	ASTM D5185m		0	11	

ooulum	ppin	ACTIVI DOTOCITI		U		
Potassium	ppm	ASTM D5185m	>20	<1	1	
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	62637		
Particles >6µm		ASTM D7647	>1300	🔺 16168		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	<u> </u>		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 23/21/17		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		0.53	0.949	

Acid Number (AN)



OIL ANALYSIS REPORT

