

PROBLEM SUMMARY

Sample Rating Trend

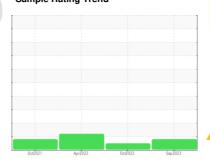


68HYDPACK005

Component

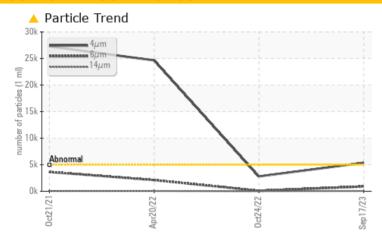
Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBI	EMATIC	TEST	RESULTS
111001			ILOULIO

Sample Status		ATTENTION	NORMAL	ABNORMAL
Particles >4µm	ASTM D7647 >500	0 <u>^</u> 5365	2799	24637
Oil Cleanliness	ISO 4406 (c) >19/1	7/14 △ 20/17/12	19/14/9	22/18/13

Customer Id: GLEONA **Sample No.:** PC0062293 Lab Number: 02593242 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: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS



24 Oct 2022 Diag: Wes Davis

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





20 Apr 2022 Diag: Wes Davis

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Particles >4µm and oil cleanliness are abnormally high. Particles >6µm are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





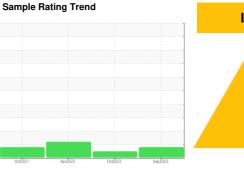
21 Oct 2021 Diag: Wes Davis

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



ISO

68HYDPACK005

Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. 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 light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

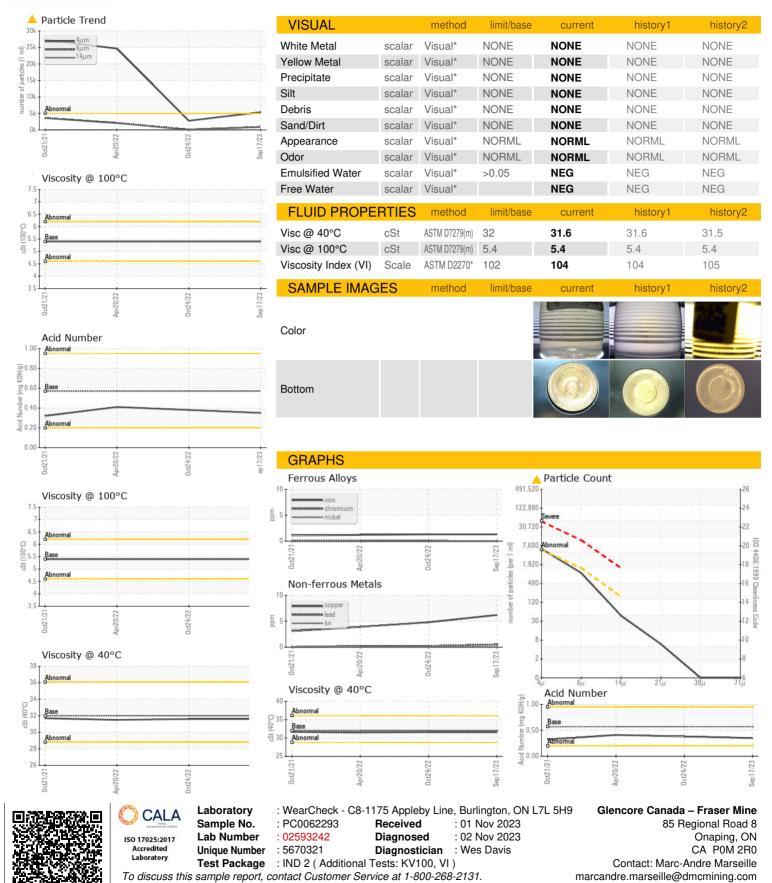
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0062293	PC0052960	PC0052985
Sample Date		Client Info		17 Sep 2023	24 Oct 2022	20 Apr 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				ATTENTION	NORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	6	5	4
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	0	<1	<1
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	25	1	1	<1
Calcium	ppm	ASTM D5185(m)	200	41	42	44
Jaiolaili			000			
	ppm	ASTM D5185(m)	300	301	321	323
Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m)	370	301 385	321 375	323 392
Phosphorus		. ,				
Phosphorus Zinc Sulfur	ppm	ASTM D5185(m)	370	385	375	392
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	370	385 834	375 846	392 857
Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	370 2500	385 834 <1	375 846 <1	392 857 <1 history2
Phosphorus Zinc Sulfur Lithium CONTAMINAN [*] Silicon	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	370 2500 limit/base	385 834 <1 current	375 846 <1 history1	392 857 <1
Phosphorus Zinc Sulfur Lithium CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	370 2500 limit/base	385 834 <1 current	375 846 <1 history1	392 857 <1 history2
Phosphorus Zinc Sulfur Lithium CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	370 2500 limit/base >15	385 834 <1 current <1 0	375 846 <1 history1 <1 <1	392 857 <1 history2 <1 0 <1
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	370 2500 limit/base >15 >20	385 834 <1 current <1 0	375 846 <1 history1 <1 <1 <1	392 857 <1 history2 <1 0 <1
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	370 2500 limit/base >15 >20 limit/base	385 834 <1 current <1 0 0	375 846 <1 history1 <1 <1 <1 history1	392 857 <1 history2 <1 0 <1 history2
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m)	370 2500 limit/base >15 >20 limit/base >5000	385 834 <1 current <1 0 0 current ▲ 5365	375 846 <1 history1 <1 <1 <1 <1 2799	392 857 <1 history2 <1 0 <1 history2 24637
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 limit/base >5000 >1300	385 834 <1 current <1 0 0 current ▲ 5365 906	375 846 <1 history1 <1 <1 <1 <1 2799 95	392 857 <1 history2 <1 0 <1 history2 ▲ 24637 ▲ 2101
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 limit/base >5000 >1300 >160	385 834 <1 current <1 0 0 current ▲ 5365 906 40	375 846 <1 history1 <1 <1 <1 <1 2799 95 3	392 857 <1 history2 <1 0 <1 history2 ▲ 24637 ▲ 2101 55
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	385 834 <1 current <1 0 0 current ▲ 5365 906 40 5	375 846 <1 history1 <1 <1 <1 <1 2799 95 3	392 857 <1 history2 <1 0 <1 history2 ▲ 24637 ▲ 2101 55 12
Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D7647	370 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	385 834 <1 current <1 0 0 current ▲ 5365 906 40 5	375 846 <1 history1 <1 <1 <1 <1 2799 95 3 1	392 857 <1 history2 <1 0 <1 history2 ▲ 24637 ▲ 2101 55 12

0.38



OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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