

PROBLEM SUMMARY

Sample Rating Trend







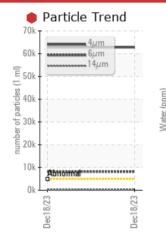
1300L TANK

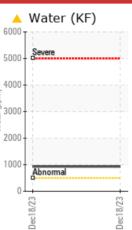
Component

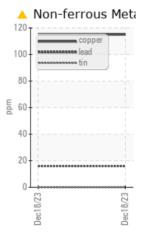
4 Hydraulic System

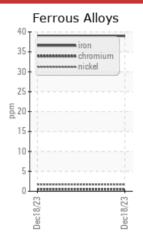
AW HYDRAULIC OIL ISO 68 (1300 LTR)

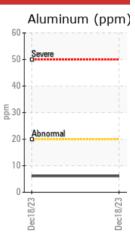
COMPONENT CONDITION SUMMARY











RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Copper	ppm	ASTM D5185(m)	>20	<u> </u>					
Water	%	ASTM D6304*	>0.05	△ 0.093					
ppm Water	ppm	ASTM D6304*	>500	930					
Particles >4µm		ASTM D7647	>5000	62805					
Particles >6µm		ASTM D7647	>1300	<u> </u>					
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/20/15					
Emulsified Water	scalar	Visual*	>0.05	.2 %					
Free Water	scalar	Visual*		1 %					

Customer Id: GOONAP Sample No.: WC Lab Number: 02604176 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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.			
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Water Access			?	We advise that you check for the source of water entry.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			
Filter Fluid			?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





1300L TANK

Component

4 Hydraulic System

AW HYDRAULIC OIL ISO 68 (1300 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Copper ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present.

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.

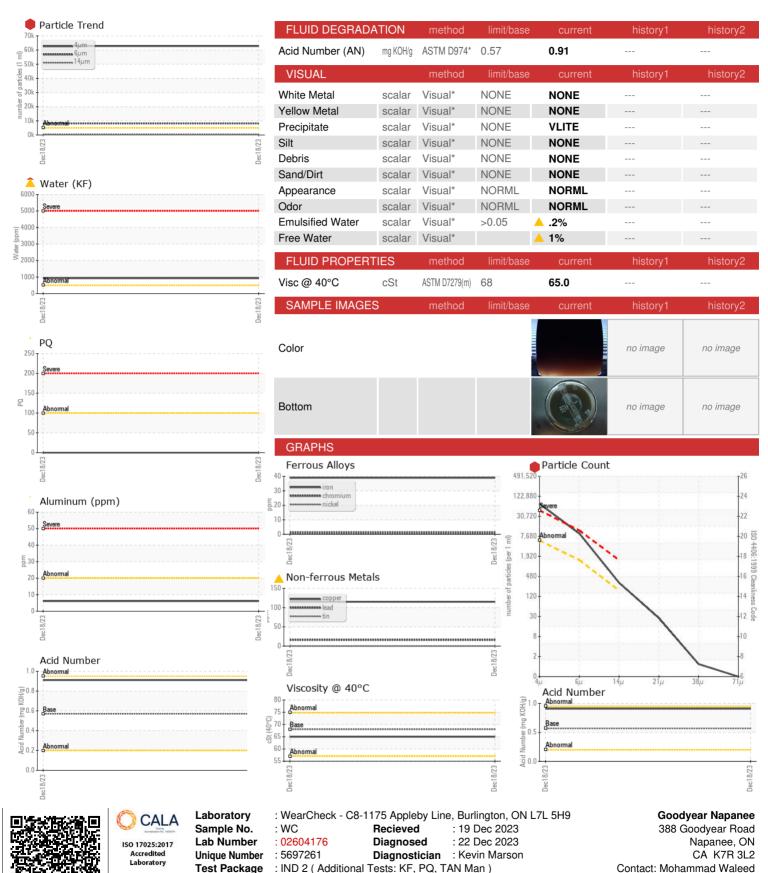
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		wc		
Sample Date		Client Info		18 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
-	1115	Client Info		N/A		
Oil Changed		Client inio				
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>20	39		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>20	2		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	6		
Lead	ppm	ASTM D5185(m)	>20	16		
Copper	ppm	ASTM D5185(m)	>20	<u>▲</u> 115		
Tin	ppm	ASTM D5185(m)		0		
Antimony		ASTM D5185(m)	720	0		
	ppm	. ,		-		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1		
Barium	ppm	ASTM D5185(m)	5	<1		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	25	13		
Calcium	ppm	ASTM D5185(m)	200	54		
Phosphorus	ppm	ASTM D5185(m)	300	672		
Zinc	ppm	ASTM D5185(m)	370	558		
Sulfur	ppm	ASTM D5185(m)	2500	2206		
Lithium	ppm	ASTM D5185(m)		<1		
	1-1-		11 1.0			
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	15		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.05	△ 0.093		
ppm Water	ppm	ASTM D6304*	>500	<u>\$\text{930}\$</u>		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	62805		
Particles >6µm		ASTM D7647	>1300	<u>▲</u> 8185		
Particles >14µm		ASTM D7647	>160	▲ 273		
Particles >21µm		ASTM D7647	>40	24		
Particles >38µm		ASTM D7647	>10	1		
		ASTM D7647		0		
Particles >71µm						

ISO 4406 (c) >19/17/14 **23/20/15**

Oil Cleanliness



OIL ANALYSIS REPORT



To discuss this sample report, contact Customer Service at 1-800-268-2131.

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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