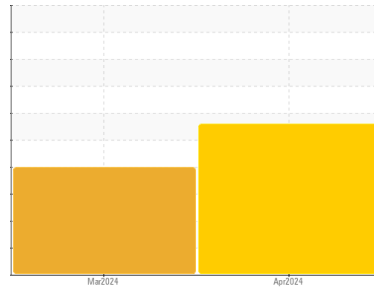




PROBLEM SUMMARY

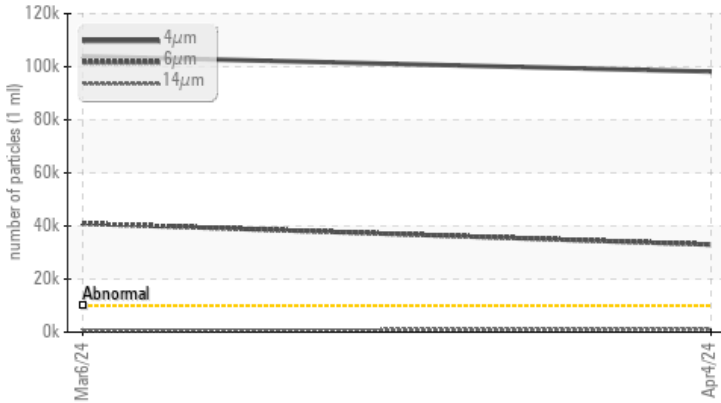
Machine Id
WESTING HOUSE TERTIARY #1 (S/N IS-72P420)
 Component
Bearing
 Fluid
AW HYDRAULIC OIL ISO 68 (20 LTR)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

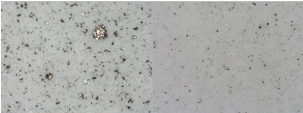
▲ Particle Trend



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Please note that this is a corrected copy for diagnostic comment updates.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Particles >4µm	ASTM D7647	>10000	▲ 98155	▲ 103940	---	---
Particles >6µm	ASTM D7647	>2500	▲ 32978	▲ 40911	---	---
Particles >14µm	ASTM D7647	>160	▲ 1017	▲ 712	---	---
Particles >21µm	ASTM D7647	>40	▲ 107	43	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 24/22/17	▲ 24/23/17	---	---
White Metal	scalar	Visual*	NONE	▲ VLITE	VLITE	---
PrtFilter					no image	

Customer Id: WAJKIR
 Sample No.: WC0924803
 Lab Number: 02626983
 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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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 Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.
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

ISO



06 Mar 2024 Diag: Kevin Marson

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 recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 68. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

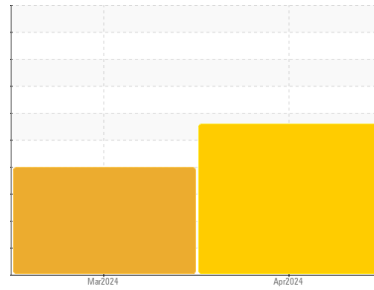
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
WESTING HOUSE TERTIARY #1 (S/N IS-72P420)
 Component
Bearing
 Fluid
AW HYDRAULIC OIL ISO 68 (20 LTR)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Please note that this is a corrected copy for diagnostic comment updates.

▲ Wear

Light concentration of visible metal present. Bearing wear is indicated. NOTE: There was not enough material present on the filter patch to perform further analysis.

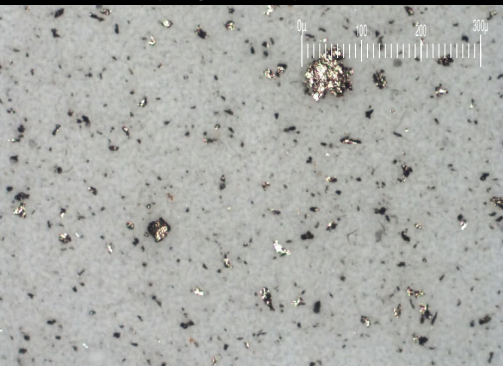
▲ Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0924803	WC0919623	---
Sample Date	Client Info		04 Apr 2024	06 Mar 2024	---
Machine Age	mths	Client Info	1	12	---
Oil Age	mths	Client Info	1	0	---
Oil Changed	Client Info		Not Changed	Changed	---
Sample Status			SEVERE	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m) >20	0	0	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >20	0	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	0	<1	---
Lead	ppm	ASTM D5185(m) >20	0	<1	---
Copper	ppm	ASTM D5185(m) >20	2	4	---
Tin	ppm	ASTM D5185(m) >20	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

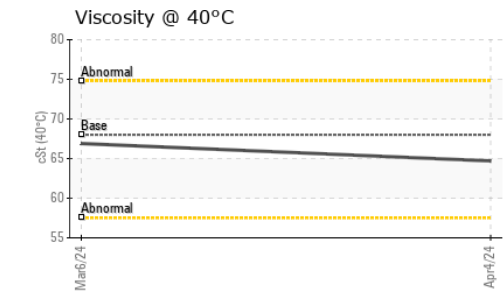
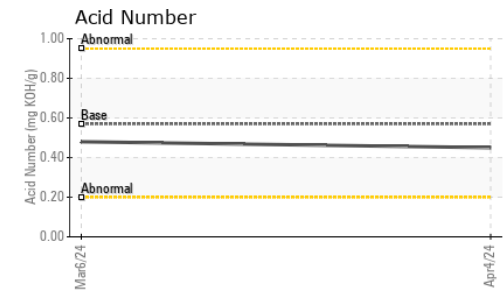
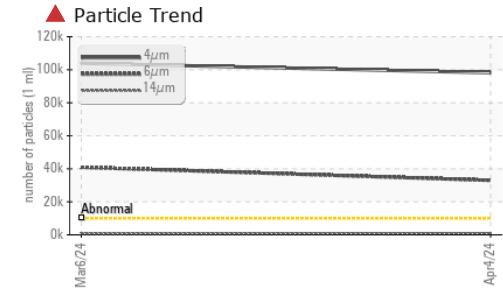
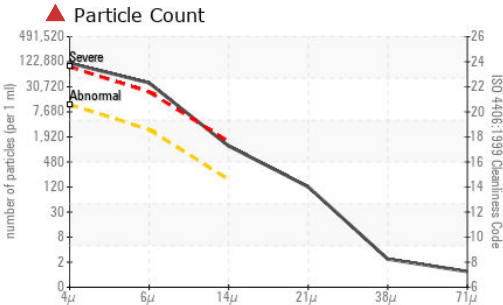
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<1	0	---
Barium	ppm	ASTM D5185(m) 5	0	0	---
Molybdenum	ppm	ASTM D5185(m) 5	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m) 25	2	<1	---
Calcium	ppm	ASTM D5185(m) 200	56	53	---
Phosphorus	ppm	ASTM D5185(m) 300	338	349	---
Zinc	ppm	ASTM D5185(m) 370	432	431	---
Sulfur	ppm	ASTM D5185(m) 2500	5646	777	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	0	0	---
Sodium	ppm	ASTM D5185(m)	0	<1	---
Potassium	ppm	ASTM D5185(m) >20	0	1	---



OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 98155	▲ 103940	---
Particles >6µm	ASTM D7647	>2500	▲ 32978	▲ 40911	---
Particles >14µm	ASTM D7647	>160	▲ 1017	▲ 712	---
Particles >21µm	ASTM D7647	>40	▲ 107	43	---
Particles >38µm	ASTM D7647	>10	2	2	---
Particles >71µm	ASTM D7647	>3	1	1	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 24/22/17	▲ 24/23/17	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.45	0.48	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	▲ VLITE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	68	64.7	66.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image		
Bottom			no image		
PrtFilter			no image		



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924803
Lab Number : 02626983
Unique Number : 5760115
Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH, ICP-DIGEST, PQ, PRTCOUNT, PrtFilter)

Wajax - NorthPoint
 475 Archer Drive
 Kirkland Lake, ON
 CA P2N 3M6

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.

Contact: Derek Garvin
 dgarvin@northpointts.com
 T: (705)568-6355
 F: