



PROBLEM SUMMARY

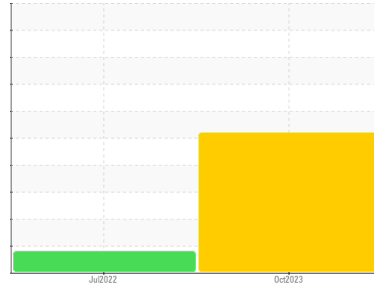
Sample Rating Trend

ISO



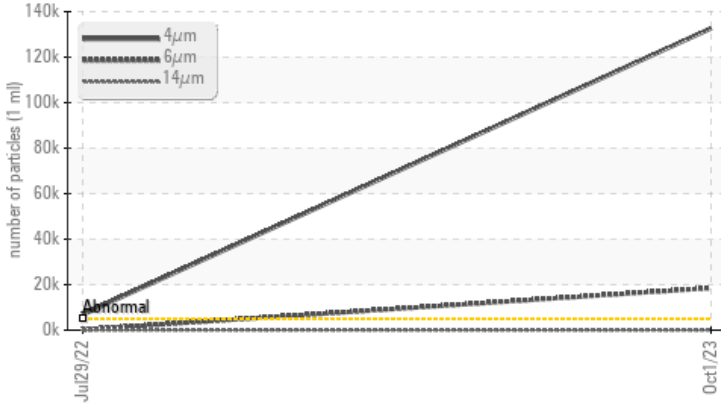
Area
PLANT 1
Machine Id
PLANT 1 UPENDER

Component
Main Hydraulic System
Fluid
COMMERCIAL OIL LUBRIKO AW 46 (100 LTR)

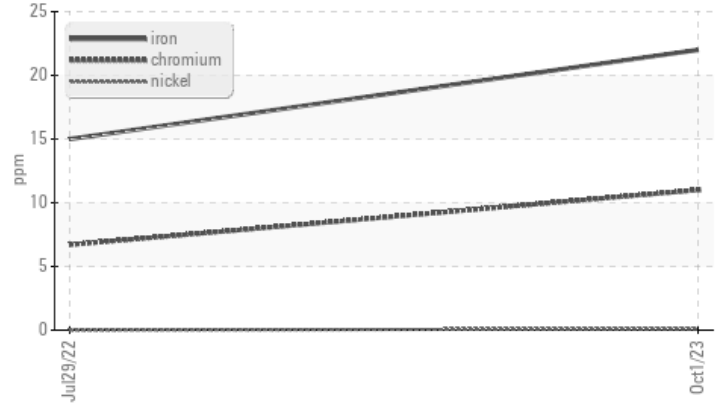


COMPONENT CONDITION SUMMARY

Particle Trend



Ferrous Alloys



RECOMMENDATION

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. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ATTENTION	---
Iron	ppm	ASTM D5185(m)	>20	▲ 22	15	---
Chromium	ppm	ASTM D5185(m)	>10	▲ 11	7	---
Particles >4µm		ASTM D7647	>5000	● 132658	▲ 6835	---
Particles >6µm		ASTM D7647	>1300	● 18525	228	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 24/21/10	▲ 20/15/11	---

Customer Id: TAYSTO
Sample No.: WC0754604
Lab Number: 02590023
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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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.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Information Required	---	---	?	Please specify the component make and model with 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 Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

29 Jul 2022 Diag: Wes Davis

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.

view report





OIL ANALYSIS REPORT

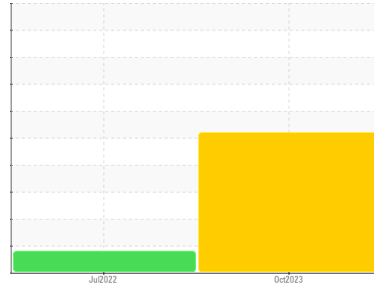
Sample Rating Trend

ISO



Area
PLANT 1
Machine Id
PLANT 1 UPENDER

Component
Main Hydraulic System
Fluid
COMMERCIAL OIL LUBRIKO AW 46 (100 LTR)



DIAGNOSIS

Recommendation
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. Please specify the component make and model with your next sample.

Wear
Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination
There is a high amount of silt (particulates < 14 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0754604	WC101249	---
Sample Date	Client Info		01 Oct 2023	29 Jul 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Changed	N/A	---
Sample Status			SEVERE	ATTENTION	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		23	---	---
Iron	ppm	ASTM D5185(m) >20	▲ 22	15	---
Chromium	ppm	ASTM D5185(m) >10	▲ 11	7	---
Nickel	ppm	ASTM D5185(m) >10	<1	0	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	<1	0	---
Aluminum	ppm	ASTM D5185(m) >10	0	0	---
Lead	ppm	ASTM D5185(m) >10	<1	1	---
Copper	ppm	ASTM D5185(m) >75	4	9	---
Tin	ppm	ASTM D5185(m) >10	0	<1	---
Antimony	ppm	ASTM D5185(m)	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	<1	3	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	0	---
Barium	ppm	ASTM D5185(m)	29	80	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m)	8	17	---
Calcium	ppm	ASTM D5185(m)	117	194	---
Phosphorus	ppm	ASTM D5185(m)	304	405	---
Zinc	ppm	ASTM D5185(m)	379	447	---
Sulfur	ppm	ASTM D5185(m)	1461	2797	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

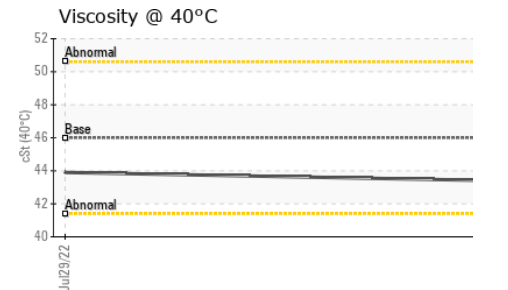
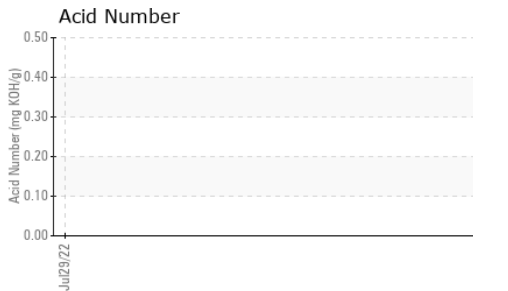
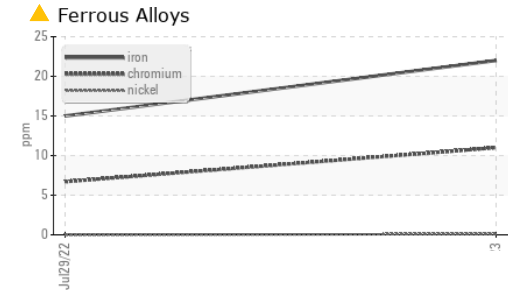
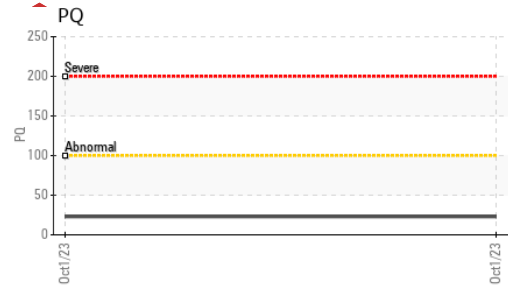
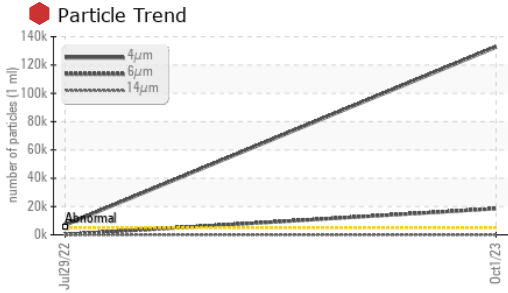
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	1	2	---
Sodium	ppm	ASTM D5185(m)	<1	1	---
Potassium	ppm	ASTM D5185(m) >20	0	<1	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 132658	▲ 6835	---
Particles >6µm	ASTM D7647	>1300	▲ 18525	228	---
Particles >14µm	ASTM D7647	>160	9	20	---
Particles >21µm	ASTM D7647	>40	3	5	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	1	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/21/10	▲ 20/15/11	---



OIL ANALYSIS REPORT

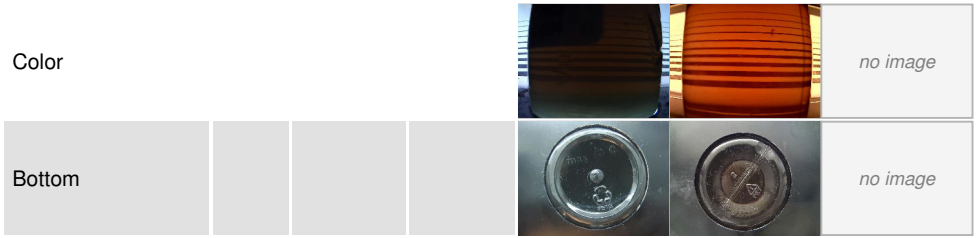


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.45	---	---

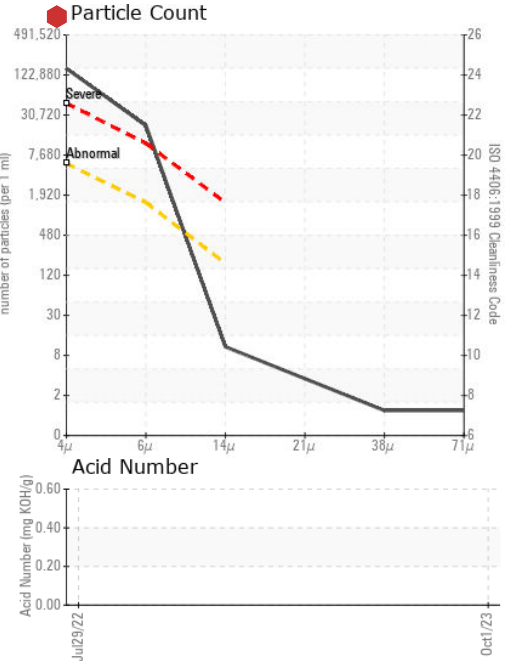
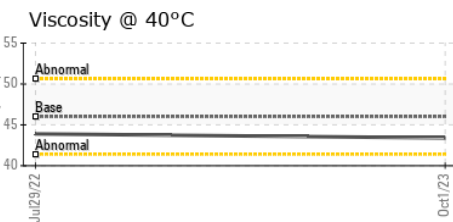
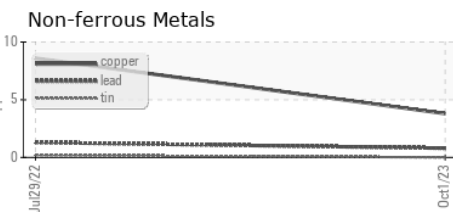
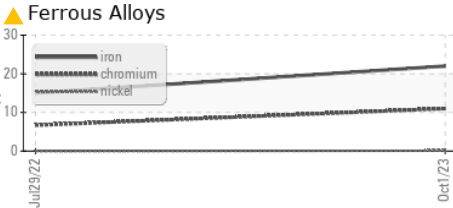
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	43.4	43.9	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0754604 Received : 18 Oct 2023
 Lab Number : 02590023 Diagnosed : 19 Oct 2023
 Unique Number : 5659089 Diagnostician : Kevin Marson
 Test Package : IND 2 (Additional Tests: PQ)

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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.