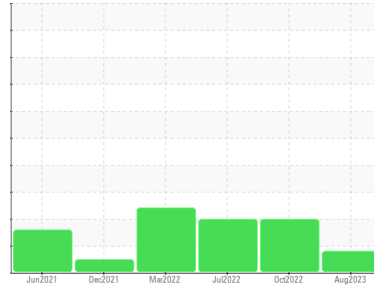




PROBLEM SUMMARY

Sample Rating Trend



ISO



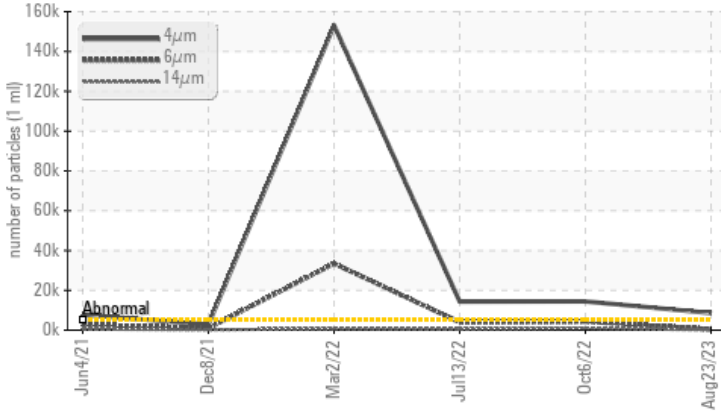
Machine Id
L2 PRESS (S/N 442-7001)

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 100 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647 >5000	▲ 8570	▲ 14447	▲ 14332
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/16/12	▲ 21/19/17	▲ 21/19/16

Customer Id: ARAMAL
 Sample No.: WC0846252
 Lab Number: 05936123
 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:
 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.
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

06 Oct 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

view report



13 Jul 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

view report



02 Mar 2022 Diag: Doug Bogart

INSOLUBLES



We advise that you perform a filter service, and use off-line depth filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

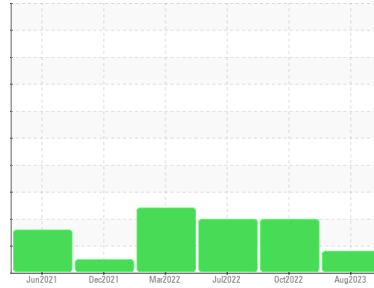
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
L2 PRESS (S/N 442-7001)

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 100 (--- QTS)

DIAGNOSIS

Recommendation

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. The water content is negligible.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0846252	WC0677143	WC0677138
Sample Date	Client Info	23 Aug 2023	06 Oct 2022	13 Jul 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	14	---	---
Iron	ppm	<1	<1	<1
Chromium	ppm	0	0	0
Nickel	ppm	<1	0	0
Titanium	ppm	0	<1	0
Silver	ppm	0	<1	0
Aluminum	ppm	0	<1	0
Lead	ppm	5	10	4
Copper	ppm	56	57	49
Tin	ppm	2	1	1
Antimony	ppm	---	---	---
Vanadium	ppm	0	<1	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	0	0	8
Barium	ppm	1	0	0
Molybdenum	ppm	1	2	1
Manganese	ppm	0	1	0
Magnesium	ppm	14	16	12
Calcium	ppm	70	65	76
Phosphorus	ppm	335	380	349
Zinc	ppm	425	422	423
Sulfur	ppm	970	837	1011

CONTAMINANTS

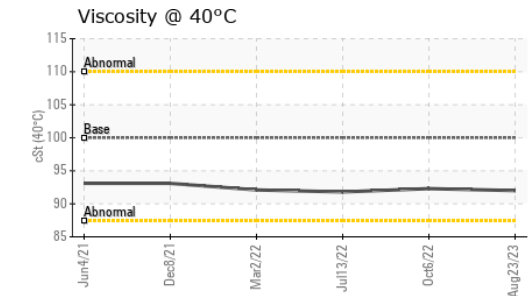
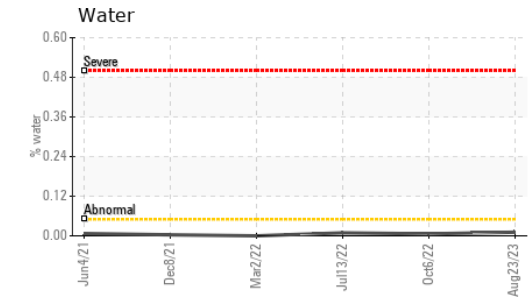
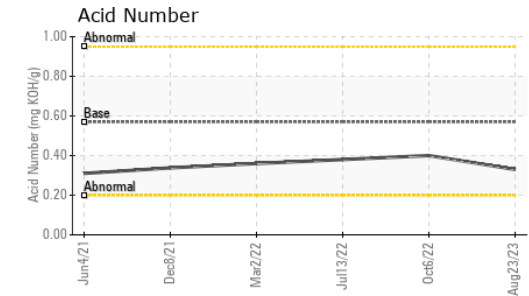
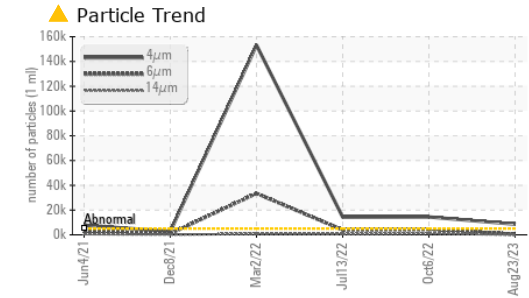
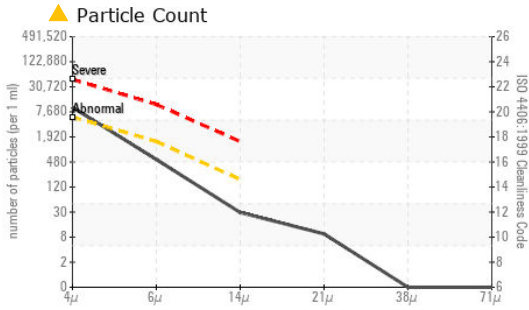
method	limit/base	current	history1	history2
Silicon	ppm	0	1	<1
Sodium	ppm	0	1	<1
Potassium	ppm	1	0	0
Water	%	0.011	0.006	0.009
ppm Water	ppm	113.0	65.2	95.9

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	▲ 8570	▲ 14447	▲ 14332
Particles >6µm	ASTM D7647	485	▲ 4299	▲ 3973
Particles >14µm	ASTM D7647	26	▲ 998	▲ 546
Particles >21µm	ASTM D7647	8	▲ 179	▲ 134
Particles >38µm	ASTM D7647	0	4	9
Particles >71µm	ASTM D7647	0	0	1
Oil Cleanliness	ISO 4406 (c)	▲ 20/16/12	▲ 21/19/17	▲ 21/19/16



OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0846252 **Received** : 28 Aug 2023
Lab Number : 05936123 **Diagnosed** : 29 Aug 2023
Unique Number : 10621394 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, PQ)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.33	0.40	0.38
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	92.0	92.3	91.8

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