



PROBLEM SUMMARY

Area
Hydro Extrusions - S08200
 Machine Id
A2308134
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 100 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 10365	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2008	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/13	---	---

Customer Id: CHECOB
 Sample No.: E30000046
 Lab Number: 02578311
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Hydro Extrusions - S08200
 Machine Id
A2308134
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 100 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

{not applicable}

Contamination

Particles >4µm and oil cleanliness are abnormally high. Particles >6µm are notably high. The sample submitted is 32 times dirtier than the Hydro Extrusion ISO dirt count requirement of 16/14/11.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	E30000046	---	---
Sample Date	Client Info	06 Aug 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	0	---	---
Chromium	ppm ASTM D5185(m) >20	0	---	---
Nickel	ppm ASTM D5185(m) >20	0	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >20	<1	---	---
Lead	ppm ASTM D5185(m) >20	<1	---	---
Copper	ppm ASTM D5185(m) >20	<1	---	---
Tin	ppm ASTM D5185(m) >20	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
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	0	---	---
Molybdenum	ppm ASTM D5185(m) 5	<1	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m) 25	12	---	---
Calcium	ppm ASTM D5185(m) 200	80	---	---
Phosphorus	ppm ASTM D5185(m) 300	332	---	---
Zinc	ppm ASTM D5185(m) 370	399	---	---
Sulfur	ppm ASTM D5185(m) 2500	668	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

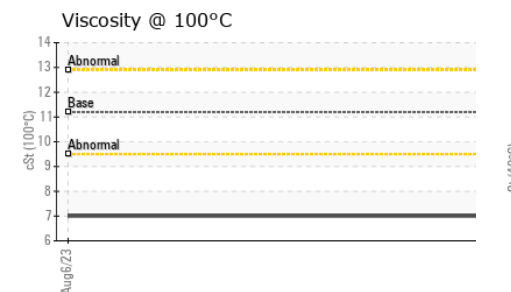
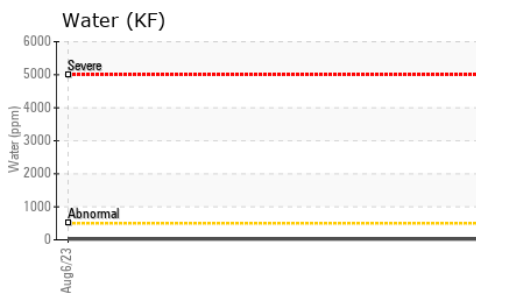
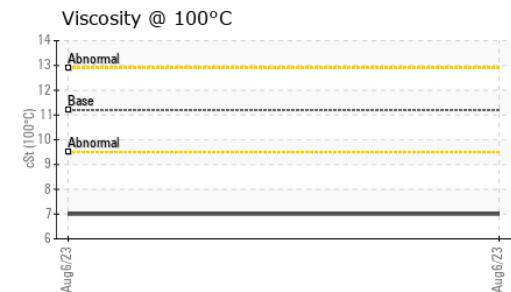
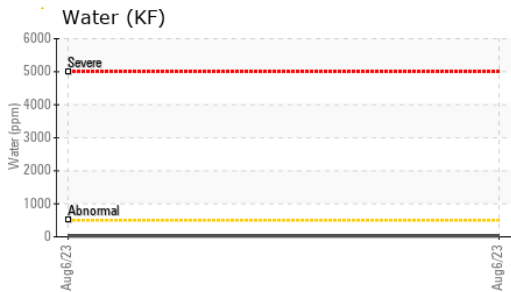
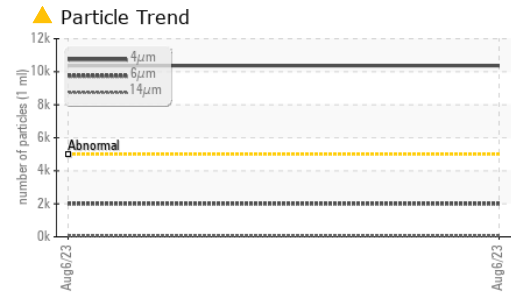
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<1	---	---
Sodium	ppm ASTM D5185(m)	<1	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---
Water	% ASTM D6304* >0.05	0.002	---	---
ppm Water	ppm ASTM D6304* >500	23.2	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 10365	---	---
Particles >6µm	ASTM D7647 >1300	▲ 2008	---	---
Particles >14µm	ASTM D7647 >160	60	---	---
Particles >21µm	ASTM D7647 >40	10	---	---
Particles >38µm	ASTM D7647 >10	0	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/18/13	---	---

OIL ANALYSIS REPORT



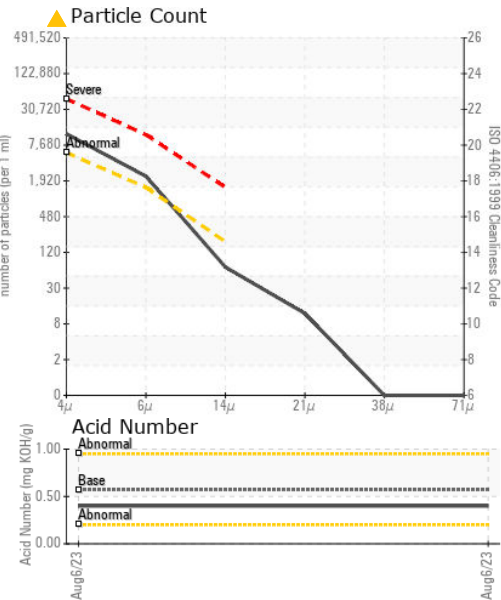
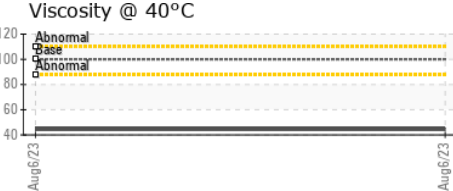
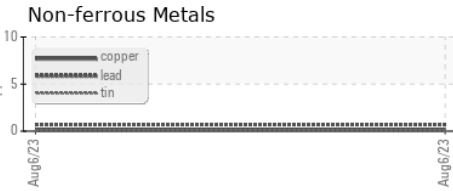
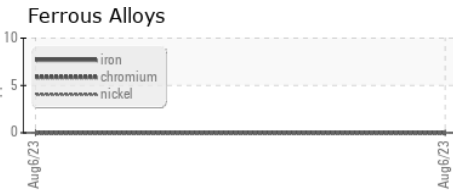
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.40	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	44.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.2	7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	115	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000046 **Received** : 24 Aug 2023
Lab Number : **02578311** **Diagnosed** : 02 Oct 2023
Unique Number : 5631371 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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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.