

Machine Id  
**PRESS #8 BACK OF COLD SAW (S/N 972861)**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (250 GAL)**

**DIAGNOSIS**

**Recommendation**  
We advise that you check all areas where dirt can enter the system. 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. We recommend an early resample to monitor this condition. 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. There is a moderate concentration of dirt present in the oil.

**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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0087732</b>	PC0076124	PC0043692
Sample Date	Client Info			<b>11 Jun 2024</b>	02 Jun 2023	23 Jun 2021
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	<b>4</b>	4	4
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185(m)	>60	<b>28</b>	27	30
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

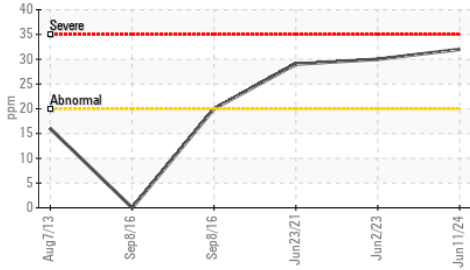
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<b>4</b>	4	5
Barium	ppm	ASTM D5185(m)	5	<b>1</b>	<1	1
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	25	<b>38</b>	35	44
Calcium	ppm	ASTM D5185(m)	200	<b>112</b>	111	121
Phosphorus	ppm	ASTM D5185(m)	300	<b>363</b>	395	401
Zinc	ppm	ASTM D5185(m)	370	<b>455</b>	443	466
Sulfur	ppm	ASTM D5185(m)	2500	<b>1711</b>	1706	1902
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>▲ 32</b>	▲ 30	▲ 29
Sodium	ppm	ASTM D5185(m)		<b>12</b>	10	10
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	<1	<1

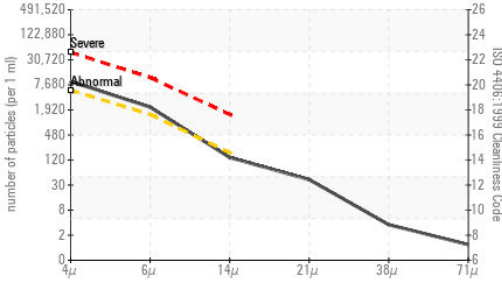
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>● 8073</b>	3300	525	
Particles >6µm	ASTM D7647	>1300	<b>● 1957</b>	910	109	
Particles >14µm	ASTM D7647	>160	<b>122</b>	68	7	
Particles >21µm	ASTM D7647	>40	<b>36</b>	16	1	
Particles >38µm	ASTM D7647	>10	<b>3</b>	1	0	
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	0	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>● 20/18/14</b>	19/17/13	16/14/10	

# OIL ANALYSIS REPORT

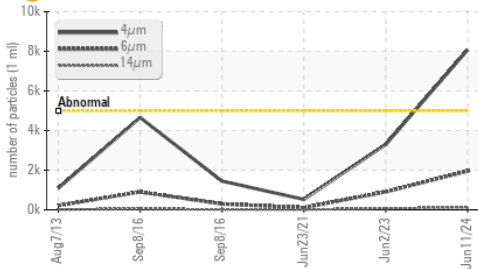
▲ Silicon (ppm)



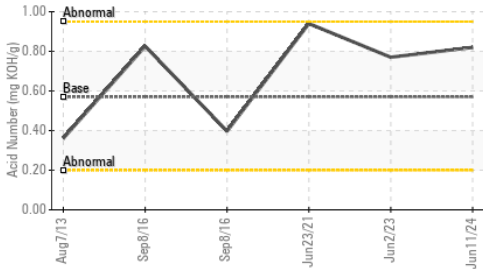
● Particle Count



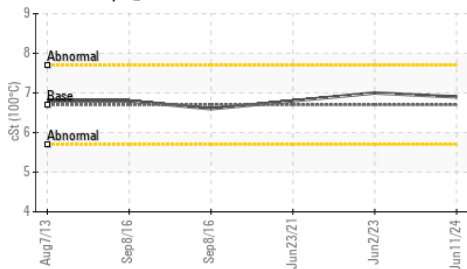
● Particle Trend



Acid Number



Viscosity @ 100°C



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087732  
**Lab Number** : 02641130  
**Unique Number** : 5798669  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )  
**Received** : 11 Jun 2024  
**Tested** : 12 Jun 2024  
**Diagnosed** : 12 Jun 2024 - Kevin Marson

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.

**EXTRUDEX ALUMINIUM**  
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 CA L4L 8N4  
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 dmunday@extrudex.com  
 T: (416)745-4444  
 F: (416)745-0925

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.82</b>	0.77	0.94

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>46.0</b>	45.8	46.3
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	<b>6.9</b>	7	6.8
Viscosity Index (VI)	Scale	ASTM D2270*	97	<b>105</b>	110	100

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						