



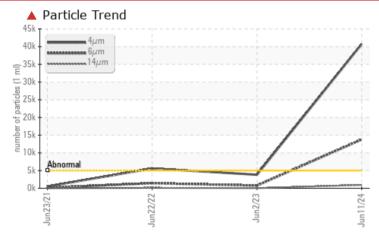
PROBLEM SUMMARY

Machine Id

PRESS#5 COLD SAW

Hydraulic System AW HYDRAULIC OIL ISO 46 (200 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants 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. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC [®]	TEST RESULTS			
Sample Status		SEVERE	NORMAL	ATTENTION
Particles >4µm	ASTM D7647 >5000	40740	3828	5590
Particles >6µm	ASTM D7647 >1300	13787	768	1439
Particles >14µm	ASTM D7647 >160	4 948	25	115
Particles >21µm	ASTM D7647 >40	<u> </u>	4	28
Oil Cleanliness	ISO 4406 (c) >19/17	7/14 🔺 23/21/17	19/17/12	20/18/14

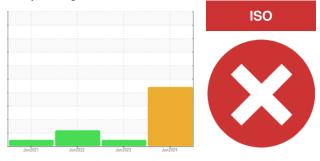
Customer Id: EXTWOO Sample No.: PC0081057 Lab Number: 02641129 Test Package: IND 2



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: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDE	D 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.
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.
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

02 Jun 2023 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





NORMAL

22 Jun 2022 Diag: Kevin Marson

We recommend you service the filters on this component. Resample at the next service interval to monitor. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



23 Jun 2021 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





NORMAL



OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

PRESS#5 COLD SAW

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (200 GAL)

DIAGNOSIS

A Recommendation

We advise that you check all areas where contaminants 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. Resample in 30-45 days to monitor this situation. 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 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 still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081057	PC0076107	PC0058507
Sample Date		Client Info		11 Jun 2024	02 Jun 2023	22 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	1	1
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)		4	4	4
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	0	<1	0
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	5 5	0 0	<1 0	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5	0 0 0	<1 0 0	0 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	0 0 0	<1 0 0 0	0 0 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25	0 0 0 <1	<1 0 0 0 <1	0 0 0 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25 200	0 0 0 <1 92	<1 0 0 0 <1 97	0 0 0 0 1 102
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300	0 0 0 <1 92 262	<1 0 0 <1 97 276	0 0 0 1 102 261
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25 200 300 370	0 0 0 <1 92 262 345	<1 0 0 <1 97 276 317	0 0 0 1 102 261 338
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300	0 0 0 <1 92 262	<1 0 0 <1 97 276	0 0 0 1 102 261
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25 200 300 370	0 0 0 <1 92 262 345 593 <1	<1 0 0 <1 97 276 317 591	0 0 0 1 102 261 338 626
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25 200 300 370 2500	0 0 0 <1 92 262 345 593 <1 current	<1 0 0 <1 97 276 317 591 <1	0 0 0 1 102 261 338 626 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	5 5 25 200 300 370 2500	0 0 0 <1 92 262 345 593 <1	<1 0 0 <1 97 276 317 591 <1 history1	0 0 0 1 102 261 338 626 <1 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base	0 0 0 <1 92 262 345 593 <1 current 0	<1 0 0 <1 97 276 317 591 <1 history1 0	0 0 0 1 102 261 338 626 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base	0 0 0 <1 92 262 345 593 <1 current 0 1 <1	<1 0 0 <1 97 276 317 591 <1 history1 0 1	0 0 0 1 102 261 338 626 <1 history2 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D5185(m)	5 5 25 200 300 370 2500 limit/base >15	0 0 0 <1 92 262 345 593 <1 <i>current</i> 0 1 1 <1	<1 0 0 <1 97 276 317 591 <1 history1 0 1 <1	0 0 0 1 102 261 338 626 <1 history2 0 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300 370 2500 2500 2500 2500 2500 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0 0 <1 92 262 345 593 <1 current 0 1 <1 <1	<1 0 0 (0 <1 97 276 317 591 <1 <1 history1 0 1 <1 <1 history1	0 0 0 1 102 261 338 626 <1 history2 0 <1 <1 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300 370 2500 2500 2500 2500 2500 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0 0 2 1 92 262 345 593 <1	<1 0 0 0 <1 97 276 317 591 <1 <1 history1 0 1 <1 history1 3828	0 0 0 1 102 261 338 626 <1 history2 0 <1 <1 <1 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D5185(m)	5 5 5 200 300 370 2500 2500 bimit/base >15 >20 bimit/base >5000 >1300 >160	0 0 0 2 1 92 262 345 593 <1	<1 0 0 0 <1 97 276 317 591 <1 history1 0 1 <1 history1 3828 768	0 0 0 1 102 261 338 626 <1 bistory2 0 <1 <1 <1 bistory2 0 5590 • 1439
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Potassium Particles >4µm Particles >14µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 200 300 370 2500 2500 bimit/base >15 >20 bimit/base >5000 >1300 >160	0 0 0 2 1 92 262 345 593 <1 0 1 1 <1 0 1 4 1 3 1 0 1 3 1 4 1 3 7 8 4 0 1 1 4 1 3 7 8 7 4 1 3 7 8 7 8 4 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	<1 0 0 0 <1 97 276 317 591 <1 history1 0 1 <1 history1 3828 768 25	0 0 0 1 102 261 338 626 <1 bistory2 0 <1 <1 <1 bistory2 0 5590 1439 115
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >40 >10	0 0 0 2 1 92 262 345 593 <1 Current 0 1 <1 <1 Current 4 0 1 3 4 9 3 4 0 1 3 8 4 0 1 3 8 1 8 8 5 1 1	<1 0 0 0 <1 97 276 317 591 <1 * history1 0 1 <1 * history1 3828 768 25 4	0 0 0 1 102 261 338 626 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Potassium Particles >4µm Particles >14µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 0 0 3 3 4 5 9 2 6 2 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 1 2 2 6 2 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 9 3 4 5 9 2 6 2 6 2 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 5 9 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<1 0 0 0 <1 97 276 317 591 <1 history1 0 1 <1 history1 3828 768 25 4 0 0 1 97 276 317 591 4 0 0 1 3828 768 25 4 0 0 1 97 276 3828 768 25 4 0 0 1 97 276 3828 768 25 4 0 0 1 97 276 3828 768 25 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 102 261 338 626 <1 bistory2 0 <1 <1 <1 bistory2 0 1 1 3 1 1 5 5590 1 1439 115 28 1



Particle Count

Particle Trend

144

214

491,520 122.88

^{30,720}
 ^{30,720}

number of particles (per 1 1.92 480 120 30

7 68

8

50 Ê 40 r of particles (1 r

10

0

1.00 Abnormal

(B).80 KOH/d)

Ê0.60 Ba

- a E 0.40 Pio 0.20

0.00

Abnorma

Abnorma

Acid Number

OIL ANALYSIS REPORT

			_			
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.41	0.28	0.30
VISUAL		method	limit/base	current	history1	history
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	LIGHT	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 PROPE	RTIES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D7279(m)	46	44.0	44.3	44.5
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.9	6.9	6.9
Viscosity Index (VI)	Scale	ASTM D2270*	97	113	112	111
SAMPLE IMAG	iES	method	limit/base	current	history1	history

Color

.24

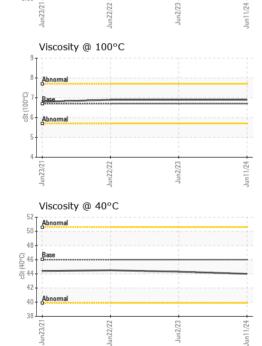
22 8

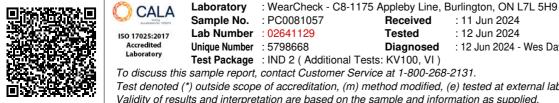
20 4406:1999 Cleanlin 16 14

12 10 8

384

Bottom





: PC0081057 Received : 11 Jun 2024 Lab Number : 02641129 Tested : 12 Jun 2024 Unique Number : 5798668 Diagnosed : 12 Jun 2024 - Wes Davis Test Package : IND 2 (Additional Tests: KV100, VI) 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

411 CHRISLEA ROAD WOODBRIDGE, ON CA L4L 8N4 Contact: Daljeet Munday dmunday@extrudex.com T: (416)745-4444 F: (416)745-0925

Report Id: EXTWOO [WCAMIS] 02641129 (Generated: 06/12/2024 15:55:44) Rev: 1

Contact/Location: Daljeet Munday - EXTWOO