

Machine Id  
**PRESS #7 LOG OVEN**

Component  
**Hydraulic System**

Fluid  
**HOUGHTON COSMOLUBRIC HF122 ISO 46 (250 GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

Tin ppm levels are noted. All other component wear rates are normal.

**Contamination**

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

**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			<b>PC0087729</b>	PC0076105	PC0058467
Sample Date	Client Info			<b>11 Jun 2024</b>	02 Jun 2023	22 Jun 2022
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>ATTENTION</b>	ATTENTION	ATTENTION

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)	>30	<b>6</b>	6	6
Chromium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>10	<b>3</b>	4	6
Copper	ppm	ASTM D5185(m)	>25	<b>5</b>	5	5
Tin	ppm	ASTM D5185(m)	>20	<b>31</b>	33	41
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	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

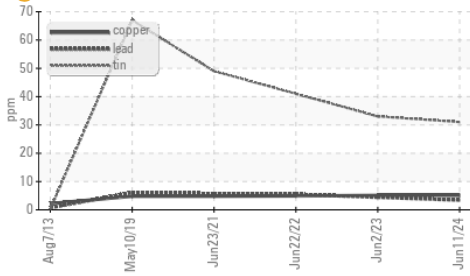
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>1</b>	<1	1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>3</b>	3	2
Calcium	ppm	ASTM D5185(m)		<b>1</b>	1	1
Phosphorus	ppm	ASTM D5185(m)		<b>186</b>	216	207
Zinc	ppm	ASTM D5185(m)		<b>20</b>	24	19
Sulfur	ppm	ASTM D5185(m)		<b>662</b>	673	755
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2

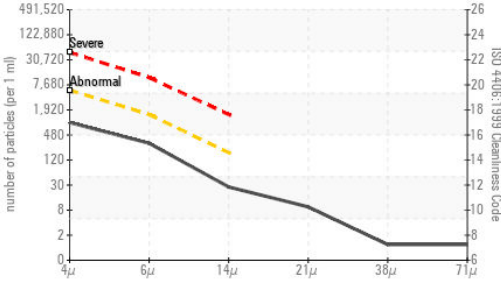
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>840</b>	1214	672
Particles >6µm		ASTM D7647	>1300	<b>267</b>	285	173
Particles >14µm		ASTM D7647	>160	<b>24</b>	15	14
Particles >21µm		ASTM D7647	>40	<b>8</b>	5	3
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	17/15/11	17/15/11

# OIL ANALYSIS REPORT

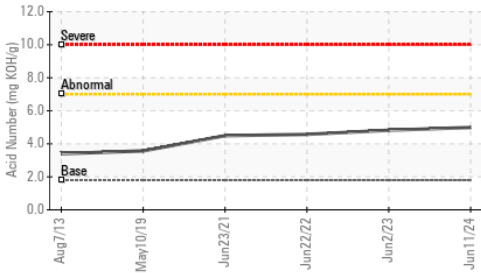
### Non-ferrous Metals



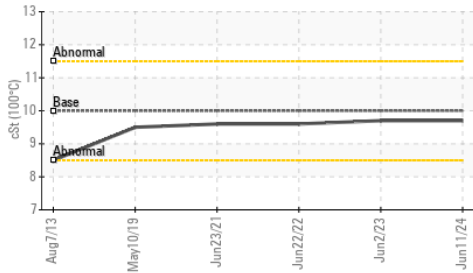
### Particle Count



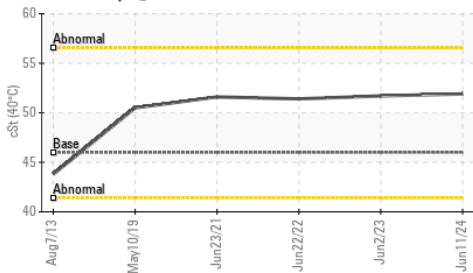
### Acid Number



### Viscosity @ 100°C



### Viscosity @ 40°C

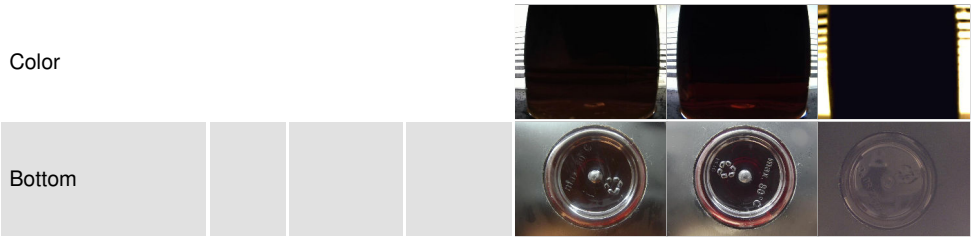


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.8	<b>4.99</b>	4.82	4.57

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	VLITE
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>51.9</b>	51.7	51.4
Visc @ 100°C	cSt	ASTM D7279(m)	10	<b>9.7</b>	9.7	9.6
Viscosity Index (VI)	Scale	ASTM D2270*	190	<b>175</b>	175	174

### SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087729  
**Lab Number** : **02641149**  
**Unique Number** : 5798688  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**Received** : 11 Jun 2024  
**Tested** : 12 Jun 2024  
**Diagnosed** : 12 Jun 2024 - Kevin Marson

**EXTRUDEX ALUMINIUM**  
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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.