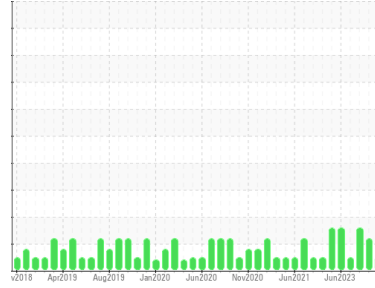


Area  
**Framo**  
Machine Id  
**HPU Deck Machinery Hyd. Power (S/N Sample Tag IH-65202-S1)**  
Component  
**Hydraulic System**  
Fluid  
**CASTROL HYSPIN AWH-M ISO 46 (2200 LTR)**



**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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>PC</b>	PC	PC0080326
Sample Date	Client Info	<b>10 Mar 2024</b>	15 Feb 2024	17 Jan 2024
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>NORMAL</b>	ATTENTION	ABNORMAL

**WEAR METALS** method limit/base current history1 history2

PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm ASTM D5185(m)	>20	<b>1</b>	3	0
Chromium	ppm ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	>10	<b>0</b>	<1	<1
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)	>10	<b>0</b>	<1	<1
Lead	ppm ASTM D5185(m)	>20	<b>0</b>	<1	0
Copper	ppm ASTM D5185(m)	>20	<b>1</b>	4	<1
Tin	ppm ASTM D5185(m)	>10	<b>0</b>	0	0
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>0</b>	0	0
Barium	ppm ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)		<b>0</b>	0	<1
Calcium	ppm ASTM D5185(m)		<b>43</b>	32	52
Phosphorus	ppm ASTM D5185(m)		<b>326</b>	335	327
Zinc	ppm ASTM D5185(m)		<b>405</b>	379	422
Sulfur	ppm ASTM D5185(m)		<b>1392</b>	2370	853
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1

**CONTAMINANTS** method limit/base current history1 history2

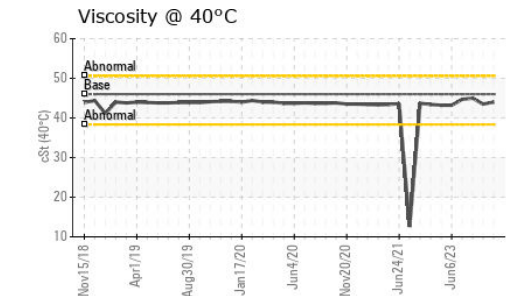
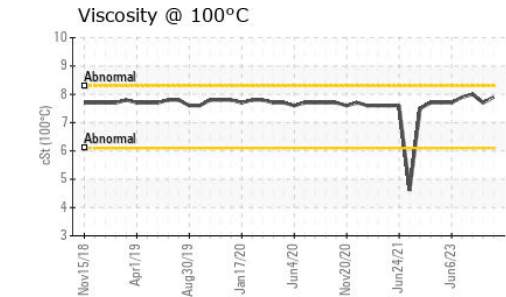
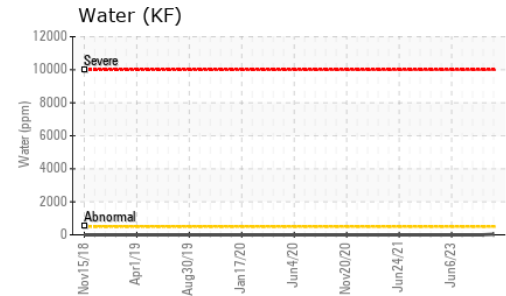
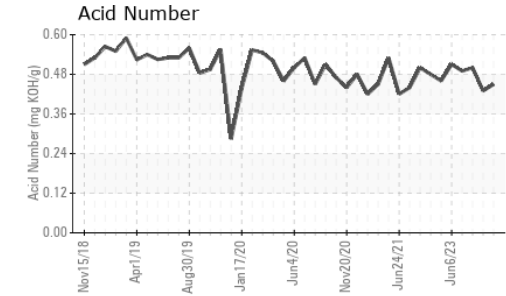
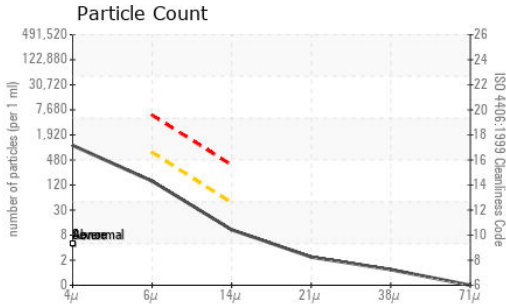
Silicon	ppm ASTM D5185(m)	>15	<b>0</b>	2	0
Sodium	ppm ASTM D5185(m)		<b>0</b>	0	0
Potassium	ppm ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water	% ASTM D6304*	>0.05	<b>0.003</b>	---	---
ppm Water	ppm ASTM D6304*	>500	<b>37</b>	---	---

**FLUID CLEANLINESS** method limit/base current history1 history2

Particles >4µm	ASTM D7647		<b>943</b>	4467	4668
Particles >6µm	ASTM D7647	>640	<b>131</b>	831	962
Particles >14µm	ASTM D7647	>40	<b>9</b>	57	68
Particles >21µm	ASTM D7647	>10	<b>2</b>	12	22
Particles >38µm	ASTM D7647	>3	<b>1</b>	1	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0

Oil Cleanliness	ISO 4406 (c)	>--/16/12	<b>17/14/10</b>	19/17/13	19/17/13
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# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : **02625697**  
**Unique Number** : 5750816  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, PQ, VI )  
**Received** : 01 Apr 2024  
**Tested** : 02 Apr 2024  
**Diagnosed** : 02 Apr 2024 - Kevin Marson

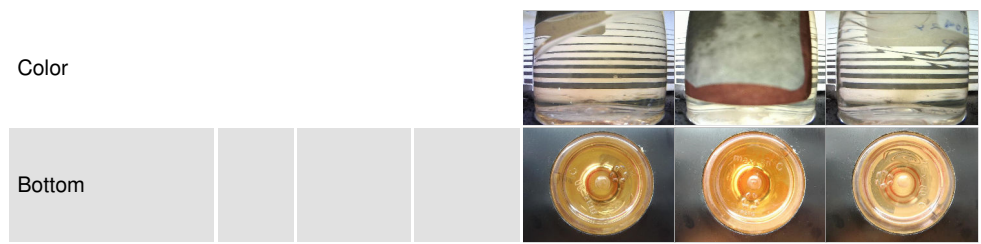
To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.45</b>	0.43	0.50

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>.2%</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)	46.0	<b>44.0</b>	43.5	45.0
Visc @ 100°C	cSt	ASTM D7279(m)		<b>7.9</b>	7.7	8
Viscosity Index (VI)	Scale	ASTM D2270*	150	<b>152</b>	146	151

## SAMPLE IMAGES



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