

PROBLEM SUMMARY

Sample Rating Trend

ISO

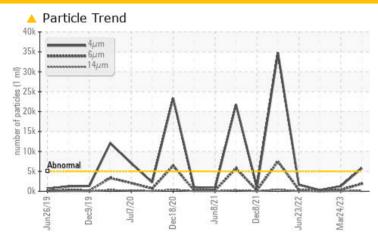
iso

[123035] Machine Id 0964-4 HILLE 2 MILL POWER PACK

Hydraulic System

MONARCH PREMIUM HYDRAULIC OIL AW R&O 46 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TES	ST RESULTS			
Sample Status		ATTENTION	NORMAL	NORMAL
Particles >4μm	ASTM D7647 >50	00 A 5803	1256	269
Particles >6μm	ASTM D7647 >13	00 🔺 1885	343	50
Particles >14μm	ASTM D7647 >16	0 225	19	8
Particles >21µm	ASTM D7647 >40	63	3	3
Oil Cleanliness	ISO 4406 (c) >19	/17/14 🛕 20/18/15	17/16/11	15/13/10

Customer Id: HENSTR Sample No.: WC0378090 Lab Number: 02575922 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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS

24 Mar 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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.



15 Sep 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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.

view report

23 Jun 2022 Diag: Kevin Marson

VISUAL METAL



We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.Light concentration of visible metal present. 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.





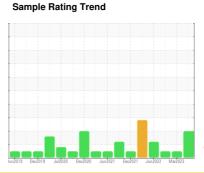
OIL ANALYSIS REPORT

Area [123035]

0964-4 HILLE 2 MILL POWER PACK

Hydraulic System

MONARCH PREMIUM HYDRAULIC OIL AW R&O 46 (--- LTR)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

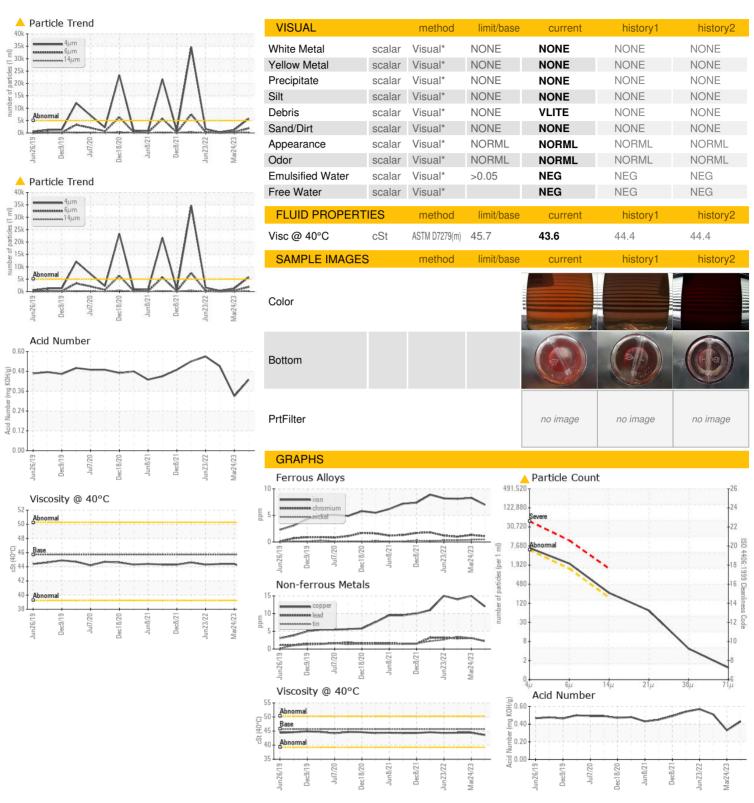
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0378090	WC0487127	WC0307883
Sample Date		Client Info		28 Jun 2023	24 Mar 2023	15 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	7	8	8
Chromium	ppm	ASTM D5185(m)	>20	1	1	1
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	2	3	3
Copper	ppm	ASTM D5185(m)	>20	12	15	14
Tin	ppm	ASTM D5185(m)	>20	2	3	4
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		4	14	16
Calcium	ppm	ASTM D5185(m)		37	58	52
Phosphorus	ppm	ASTM D5185(m)		381	405	407
Zinc	ppm	ASTM D5185(m)		394	403	394
Sulfur	ppm	ASTM D5185(m)		975	1106	1134
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	1	1
Sodium	ppm	ASTM D5185(m)		1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 5803	1256	269
Particles >6µm		ASTM D7647	>1300	1885	343	50
Particles >14µm		ASTM D7647	>160	225	19	8
Particles >21µm		ASTM D7647	>40	△ 63	3	3
Particles >38µm		ASTM D7647	>10	4	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/18/15	17/16/11	15/13/10
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
					0.0-	

0.33

0.51



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0378090 : 02575922

: 5628982 : IND 2

Received : 15 Aug 2023 Diagnosed : 16 Aug 2023 : Wes Davis Diagnostician

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.

HENDRICKSON CANADA LTD.

532 ROMEO STREET STRATFORD, ON **CA N5A 7X1**

Contact: Sandeep Bhatt sbhatt@hendrickson-intl.com

T: (519)273-8707 F: (519)271-3103