

#### **PROBLEM SUMMARY**

### PROBLEM SUMMARY

# ERNA E HONEYCUTT Machine Id [ERNA E HONEYCUTT] 012 641346-12

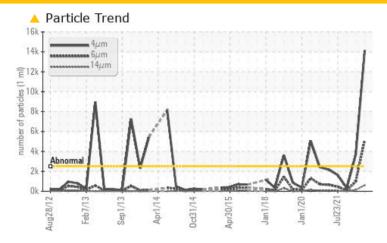
Component
Auxiliary Steering

**CHEVRON RANDO HDZ 68 (--- GAL)** 

# Sample Rating Trend | 2012 Fe2013 Se2013 Acc2014 Oc2014 Acc2015 Jan2018 Jan2020 Juli0221



#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	ATTENTION	NORMAL
Particles >4µm		ASTM D7647	>2500	<u> </u>	<b>△</b> 3698	322
Particles >6µm		ASTM D7647	>640	<u>▲</u> 5127	<b>△</b> 974	84
Particles >14µm		ASTM D7647	>80	<u></u> 618	<u>121</u>	11
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>△</b> 31	2
Particles >38µm		ASTM D7647	>4	<u> </u>	2	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	<b>1</b> 9/17/14	16/14/11
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE

Customer Id: INGPAD Sample No.: MW0054375 Lab Number: 05924145 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

#### HISTORICAL DIAGNOSIS

#### 23 Jul 2022 Diag: Don Baldridge





No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



#### 31 Jan 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 23 Jul 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



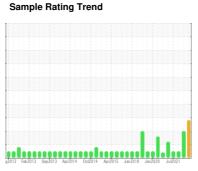


#### **OIL ANALYSIS REPORT**

## ERNA E HONEYCUTT [ERNA E HONEYCUTT] 012 641346-12

**Auxiliary Steering** 

**CHEVRON RANDO HDZ 68 (--- GAL)** 





#### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the fluid. Moderate concentration of visible dirt/debris present in the fluid.

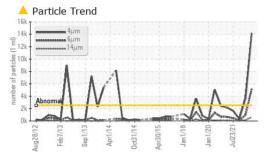
#### **Fluid Condition**

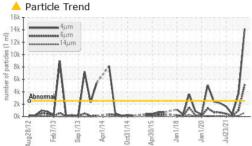
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

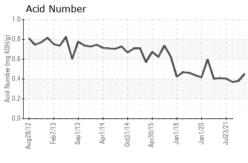
		g2012 Feb201	3 Sep2013 Apr2014 Oct2	014 Apr2015 Jan2018 Jan2020	Jul2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MW0054375	MW0038929	MW0027394
Sample Date		Client Info		28 Jul 2023	23 Jul 2022	31 Jan 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		3000	0	77885
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	4	2	2
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	75	60	61	60
Phosphorus	ppm	ASTM D5185m	275	372	361	346
Zinc	ppm	ASTM D5185m	350	467	456	477
Sulfur	ppm	ASTM D5185m	550	1240	2294	2239
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>	▲ 3698	322
Particles >6µm		ASTM D7647	>640	<u> </u>	<b>△</b> 974	84
Particles >14µm		ASTM D7647	>80	<b>△</b> 618	<u> </u>	11
Particles >21µm		ASTM D7647	>20	<u>^</u> 219	<b>△</b> 31	2
Particles >38µm		ASTM D7647	>4	<u> </u>	2	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>21/20/16</b>	<b>△</b> 19/17/14	16/14/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.38	0.37

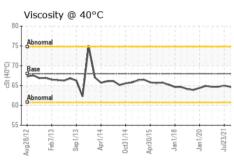


#### **OIL ANALYSIS REPORT**









VISUAL		method	limit/base	current	history1	history2
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	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	historv1	history2

0.5				000		
Visc @ 40°C	cSt	ASTM D445	68.0	68.0	64.0	64.7

SAMPLE	IMAGES	met

thod limit/base

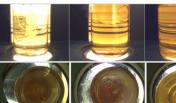
current

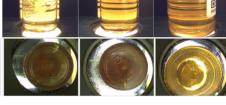
history1

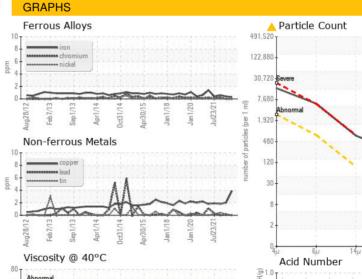
history2

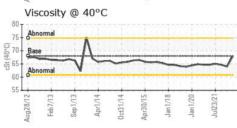
Color

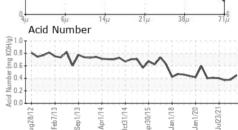
**Bottom** 













Laboratory Sample No. Lab Number **Unique Number** Test Package : MAR 2 ( Additional Tests: PrtCount )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: MW0054375 : 05924145 : 10604092

Received Diagnosed Diagnostician : Don Baldridge

: 14 Aug 2023 : 15 Aug 2023

Contact: JEFF BISHOP jeff.bishop@ingrambarge.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: (615)695-3697

**INGRAM BARGE** 

900 S 3RD ST

PADUCAH, KY

US 42003