



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**SUSAN JOHNSON**  
Machine Id  
**[SUSAN JOHNSON] 011 - FLANKING 569359-11 - FL**  
Component  
**Hydraulic System**  
Fluid  
**CHEVRON RANDO HDZ 68 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0058737</b>	MW0051587	MW0035500
Sample Date		Client Info		<b>30 Jul 2023</b>	18 Apr 2023	30 Jan 2023
Machine Age	hrs	Client Info		<b>0</b>	0	37296
Oil Age	hrs	Client Info		<b>0</b>	0	37296
Filter Age	hrs	Client Info		<b>0</b>	0	4525
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>0</b>	<1	6
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>20	<b>10</b>	10	13
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

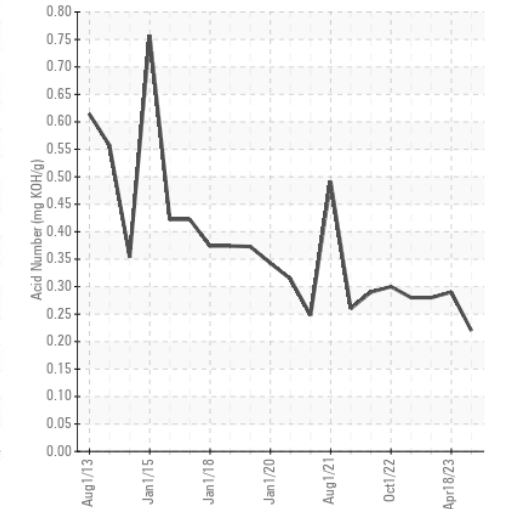
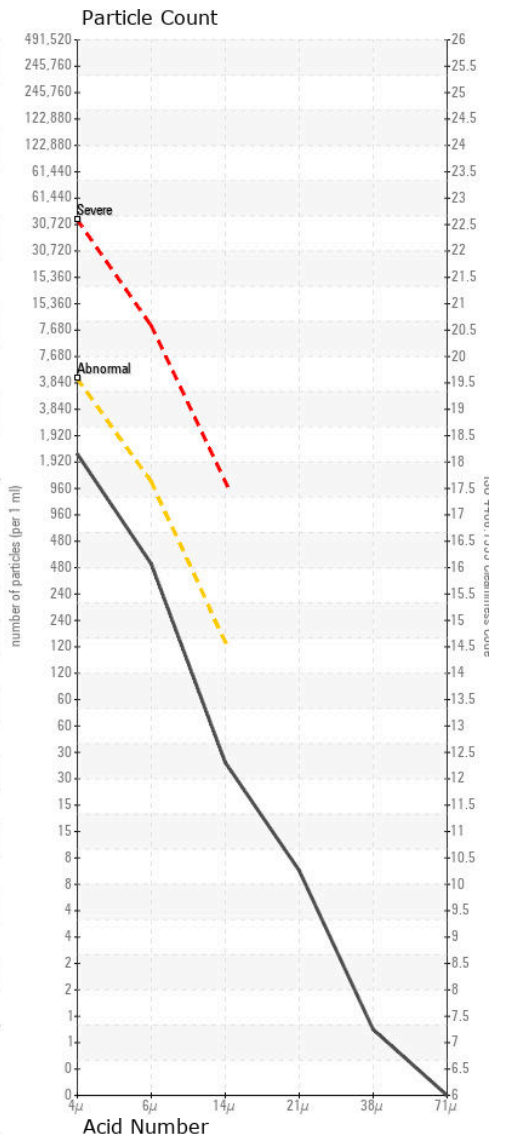
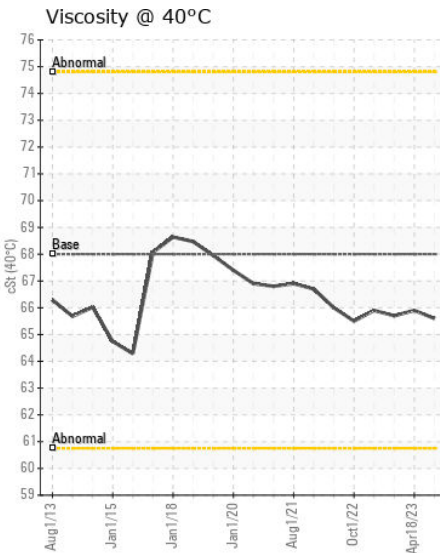
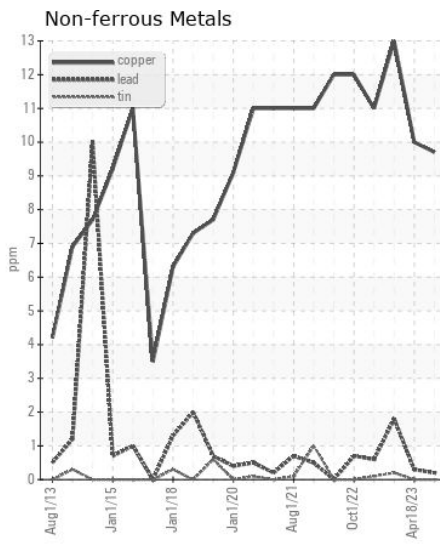
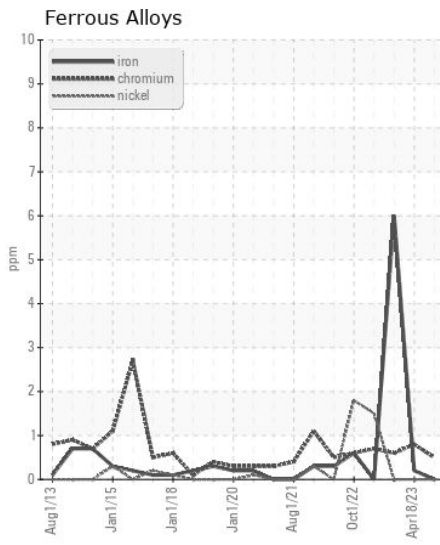
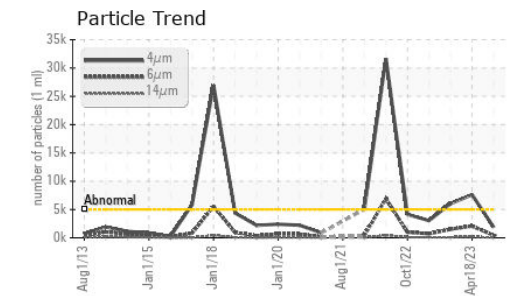
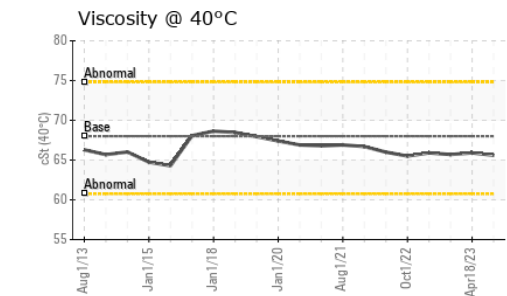
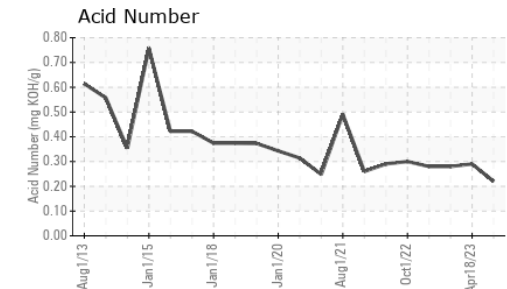
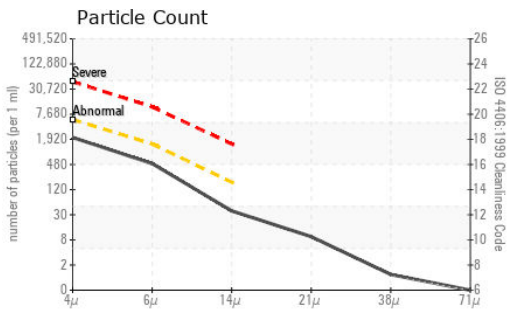
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>3</b>	2	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1867</b>	7626	6035
Particles >6µm		ASTM D7647	>1300	<b>443</b>	2082	1525
Particles >14µm		ASTM D7647	>160	<b>33</b>	183	93
Particles >21µm		ASTM D7647	>40	<b>8</b>	41	20
Particles >38µm		ASTM D7647	>10	<b>1</b>	4	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	20/18/15	20/18/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	<1	1
Calcium	ppm	ASTM D5185m	75	<b>40</b>	38	38
Phosphorus	ppm	ASTM D5185m	275	<b>386</b>	329	391
Zinc	ppm	ASTM D5185m	350	<b>450</b>	407	424
Sulfur	ppm	ASTM D5185m	550	<b>1121</b>	973	994
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.22</b>	0.29	0.28
Visc @ 40°C	cSt	ASTM D445	68.0	<b>65.6</b>	65.9	65.7



Certificate L2367

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

Sample No. : MW0058737

Lab Number : 05925429

Unique Number : 10605376

Test Package : MAR 2

Received : 15 Aug 2023

Tested : 16 Aug 2023

Diagnosed : 17 Aug 2023 - Jonathan Hester

INGRAM BARGE

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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)