

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	ABNORMAL	NORMAL		
Particles >4µm	ASTM D7647	>2500	<u> </u>	1 0953	1002		
Particles >6µm	ASTM D7647	>640	<mark>人</mark> 768	2804	87		
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u> </u>	🔺 21/19/15	17/14/10		

Customer Id: INGPAD Sample No.: MW0058746 Lab Number: 05964156 Test Package: MAR 2



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

ISO

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 Mar 2023 Diag: Don Baldridge



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high 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.

28 Aug 2022 Diag: Jonathan Hester





Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of

particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



ISO

28 Aug 2020 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 high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area MARTHA LYNN Machine Id [MARTHA LYNN] 012 504678-12 Component

Auxiliary Steering

CHEVRON RANDO HDZ 68 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

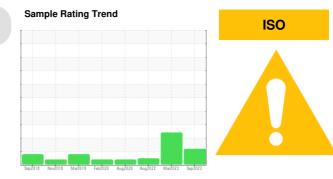
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

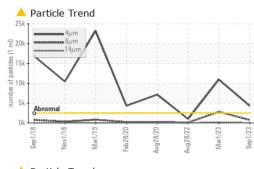
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

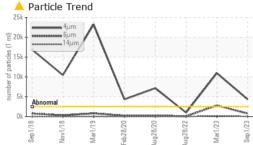


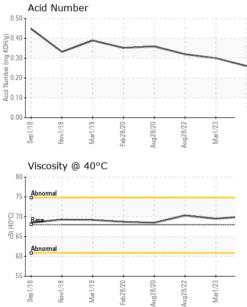
	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MW0058746	MW0051325	MW0043458
Sample Date		Client Info		01 Sep 2023	01 Mar 2023	28 Aug 2022
Machine Age	hrs	Client Info		0	11820	8000
Oil Age	hrs	Client Info		0	11820	8000
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>5	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		11	11	34
Tin	ppm		>5	0	0	0
Antimony	ppm	ASTM D5185m	-			
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1° P	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	<1	0
Calcium	ppm	ASTM D5185m		53	52	55
Phosphorus	ppm	ASTM D5185m	275	357	368	348
Zinc	ppm	ASTM D5185m	350	428	438	426
-		AGTIM DJ10JIII	000	420	400	
Sulfur		ASTM D5185m	550	060	700	
	ppm	ASTM D5185m	550	969	790	915
CONTAMINANTS	;	method	limit/base	current	history1	915 history2
CONTAMINANTS Silicon	ppm	method ASTM D5185m	limit/base	current <1	history1 2	915 history2 <1
Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >15	current <1 0	<mark>history1</mark> 2 0	915 history2 <1 <1
CONTAMINANTS Silicon Sodium	ppm	method ASTM D5185m	limit/base >15	current <1	history1 2	915 history2 <1
CONTAMINANTS Silicon	ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >15	current <1 0	<mark>history1</mark> 2 0	915 history2 <1 <1 0 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	limit/base >15 >20 limit/base >2500	 current <1 0 1 current 4328 	history1 2 0 0 0 <u>history1</u> ▲ 10953	915 history2 <1 <1 <1 0 history2 1002
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >2500 >640	<1 0 1 current ▲ 4328 ▲ 768	history1 2 0 0 history1 ▲ 10953 ▲ 2804	915 history2 <1 <1 <1 0 history2 1002 87
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80	<1 0 1 current ▲ 4328 ▲ 768 37	history1 2 0 0 0 history1 ▲ 10953 ▲ 2804 ▲ 192	915 history2 <1 <1 0 history2 1002 87 5
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80	<1 0 1 current ▲ 4328 ▲ 768	history1 2 0 0 0 history1 10953 2804 192 41	915 history2 <1 <1 <1 0 history2 1002 87
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80	<1 0 1 current ▲ 4328 ▲ 768 37	history1 2 0 0 0 history1 ▲ 10953 ▲ 2804 ▲ 192	915 history2 <1 <1 0 history2 1002 87 5
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80 >20	current <1 0 1 current ▲ 4328 ▲ 768 37 9	history1 2 0 0 0 history1 10953 2804 192 41	915 history2 <1 <1 0 history2 1002 87 5 1
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80 >20 >20 >4	<1 0 1 current ▲ 4328 ▲ 768 37 9 0	history1 2 0 0 history1 ▲ 10953 ▲ 2804 ▲ 192 ▲ 41 ▲ 5	915 history2 <1 <1 0 history2 1002 87 5 1 0
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm IESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >2500 >640 >80 >20 >20 >4 >3	<1 0 1 current ▲ 4328 ▲ 768 37 9 0 0 0 0 0 0 0 0	history1 2 0 0 history1 ▲ 10953 ▲ 2804 ▲ 192 ▲ 41 ▲ 5 0	915 history2 <1 <1 0 history2 1002 87 5 1 1 0 0 0



OIL ANALYSIS REPORT

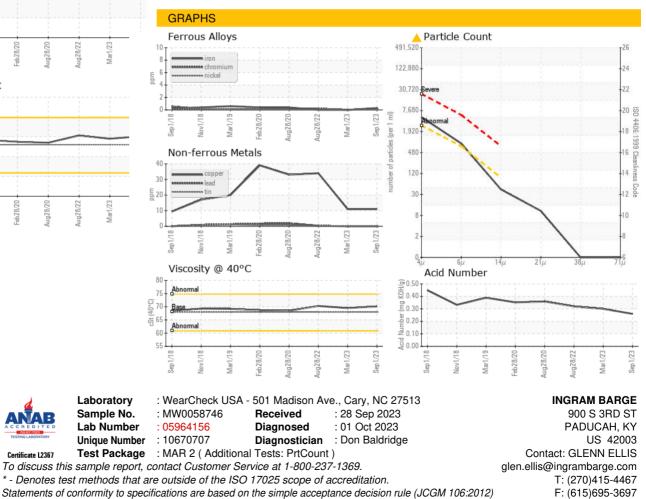






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.0	70.1	69.5	70.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom





Certificate L2367

Contact/Location: GLENN ELLIS - INGPAD