

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 427191 - SW4738 Component Transmission (Auto)

Fluid DEXRON III (--- 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

Moderate concentration of visible dirt/debris present in the fluid.

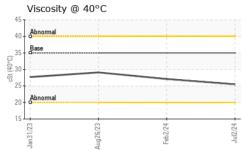
#### Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123514	GFL0105483	GFL0089461
Sample Date		Client Info		02 Jul 2024	02 Feb 2024	26 Aug 2023
Machine Age	mls	Client Info		375801	360673	340693
Oil Age	mls	Client Info		375801	360673	340693
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	17	16	16
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	3	3	2
Lead	ppm	ASTM D5185m	>50	2	4	4
Copper	ppm	ASTM D5185m	>225	154	75	114
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron		ACTM DE10Em			05	120
DOIOII	ppm	ASTM D5185m		56	35	120
Barium	ppm	ASTM D5185m		56 0	0	0
Barium						
Barium Molybdenum	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 0	0 0	0 <1
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1	0 0 <1	0 <1 <1
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 6	0 0 <1 <1	0 <1 <1 0
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 6 595	0 0 <1 <1 182	0 <1 <1 0 409
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 6 595 551	0 0 <1 <1 182 430	0 <1 <1 0 409 452
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 6 595 551 58	0 0 <1 <1 182 430 17	0 <1 <1 0 409 452 34
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 6 595 551 58 1786	0 0 <1 <1 182 430 17 1312	0 <1 <1 0 409 452 34 1650
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 6 595 551 58 1786 current	0 0 <1 <1 182 430 17 1312 history1	0 <1 <1 0 409 452 34 1650 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>20	0 0 <1 6 595 551 58 1786 current 9	0 0 <1 <1 182 430 17 1312 history1 7	0 <1 <1 0 409 452 34 1650 history2 4
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>20	0 0 <1 6 595 551 58 1786 current 9 6	0 0 <1 <1 182 430 17 1312 history1 7 5	0 <1 <1 0 409 452 34 1650 history2 4 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	0 0 <1 6 595 551 58 1786 current 9 6 3	0 0 <1 <1 182 430 17 1312 history1 7 5 0	0 <1 <1 0 409 452 34 1650 history2 4 2 <1
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	>20 >20 limit/base	0 0 <1 6 595 551 58 1786 current 9 6 3 current	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm ppm	ASTM D5185m ASTM D5185m XBTM D5185m	>20 >20 limit/base NONE	0 0 <1 6 595 551 58 1786 current 9 6 3 2 current NONE	0 0 <1 <1 182 430 17 1312 history1 7 5 0 0 history1 NONE	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 kistory2 NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m *Visual	>20 >20 limit/base NONE NONE	0 0 <1 6 595 551 58 1786 current 9 6 3 current NONE NONE	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 NONE NONE	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 history2 NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual	>20 >20 limit/base NONE NONE NONE	0 0 <1 6 595 551 58 1786 current 9 6 3 3 current NONE NONE NONE	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 NONE NONE NONE NONE	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 2 <1 NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	0 0 <1 6 595 551 58 1786 current 9 6 3 3 current NONE NONE NONE NONE NONE	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 NONE NONE NONE NONE NONE NONE	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 2 <1 history2 NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	0 0 3 595 551 58 1786 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 NONE NONE NONE NONE NONE NONE NONE	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	0 0 <1 6 595 551 58 1786 current 9 6 3 current NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 0 (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1)	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	0 0 3 595 551 58 1786 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 NONE NONE NONE NONE NONE NONE NONE NON
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 0 <1 6 595 551 58 1786 Current 9 6 3 Current 9 6 3 Current NONE NORML	0 0 <1 <1 182 430 17 1312 history1 7 5 0 history1 7 5 0 NONE NONE NONE NONE NONE NONE NONE NO	0 <1 <1 0 409 452 34 1650 history2 4 2 <1 NONE NONE NONE NONE NONE NONE NONE NON



# **OIL ANALYSIS REPORT**



FLUID PROPERTIES	method	limit/base	current	history1	histo
Visc @ 40°C cSt	ASTM D445	35.0	25.5	27.1	29.1
SAMPLE IMAGES	method	limit/base	current	history1	histo
Color			no image	no image	no ima
Bottom			no image	no image	no ima
GRAPHS Ferrous Alloys					
120 iron					
100 - chromium					
80					
E 60					
40					
20					
	24	24			
Jan 31/23 Aug 26/23	Feb2/24	Jul2/24			
Non-ferrous Metals					
160 140		1			
120 -	/				
100					
E 80					
40 -					
20 -					
0 53 53 53	/24				
Jan31/23 Aug26/23	Feb2/24	Jul2/24			
Viscosity @ 40°C					
40 - Abnormal					
Race					
2 9 30	1				
25 -					
20 + Abnormal					
1	Feb2/24	Jul2/24			
Jan 31/23 +		2			

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)

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Certificate L2367

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2

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