

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id DT642 Component Transmission (Auto) Fluid COGNIS EMGARD 2805 ATF (--- QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

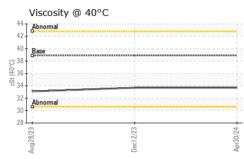
#### Fluid Condition

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		PCA0124369	PCA0111648	PCA0101874
Sample Date		Client Info		30 Apr 2024	12 Dec 2023	28 Aug 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	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	37	35	48
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	7	7	6
Lead	ppm	ASTM D5185m	>50	6	6	8
Copper	ppm	ASTM D5185m	>225	16	17	13
Tin	ppm	ASTM D5185m	>10	2	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		110	106	92
Barium	ppm ppm	ASTM D5185m ASTM D5185m		110 <1	0	0
				-		
Barium	ppm	ASTM D5185m		<1 2 <1	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		<1 2	0	0
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 2 <1	0 3 <1	0 0 <1
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 2 <1 10	0 3 <1 0	0 0 <1 19
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 2 <1 10 171	0 3 <1 0 174	0 0 <1 19 133
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 2 <1 10 171 300	0 3 <1 0 174 246	0 0 <1 19 133 290
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 2 <1 10 171 300 44	0 3 <1 0 174 246 45	0 0 <1 19 133 290 15
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 2 <1 10 171 300 44 2062	0 3 <1 0 174 246 45 1775	0 0 <1 19 133 290 15 1800
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		<1 2 <1 10 171 300 44 2062 current	0 3 <1 0 174 246 45 1775 history1	0 0 <1 19 133 290 15 1800 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>20	<1 2 <1 10 171 300 44 2062 current 4	0 3 <1 0 174 246 45 1775 history1 6	0 0 <1 19 133 290 15 1800 history2 4
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	>20	<1 2 <1 10 171 300 44 2062 <u>current</u> 4 3	0 3 <1 0 174 246 45 1775 history1 6 2	0 0 <1 19 133 290 15 1800 history2 4 5
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>20 >20	<1 2 <1 10 171 300 44 2062 <u>current</u> 4 3 0	0 3 <1 0 174 246 45 1775 history1 6 2 <1	0 0 <1 19 133 290 15 1800 history2 4 5 2
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 ppm	ASTM D5185m ASTM D5185m YUSUAL	>20 >20 limit/base NONE NONE	<1 2 <1 10 171 300 44 2062  current 4 3 0  current NONE NONE NONE	0 3 <1 0 174 246 45 1775 history1 6 2 <1 <1 history1	0 0 <1 19 133 290 15 1800 history2 4 5 2 2 history2 NONE 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 ypm ypm	ASTM D5185m ASTM D5185m Yisual	>20 >20 limit/base NONE NONE NONE	<1 2 <1 10 171 300 44 2062 <i>current</i> 4 3 0 <i>current</i> NONE	0 3 <1 0 174 246 45 1775 history1 6 2 <1 istory1 MODER NONE NONE NONE	0 0 <1 19 133 290 15 1800 history2 4 5 2 2 history2 NONE NONE NONE 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 <b>ITS</b>	ASTM D5185m ASTM D5185m Y Usual *Visual *Visual	>20 >20 limit/base NONE NONE	<1 2 <li>&lt;1 10 171 300 44 2062  <p>current 4 3 0  current NONE NONE NONE NONE</p></li>	0 3 <1 0 174 246 45 1775 history1 6 2 <1 history1 MODER NONE	0 0 <1 19 133 290 15 1800 history2 4 5 2 history2 A 5 2 NONE NONE NONE NONE 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 VTS	ASTM D5185m ASTM D5185m Yisual	>20 >20 limit/base NONE NONE NONE	<1 2 <1 10 171 300 44 2062  current 4 3 0  current NONE NONE NONE NONE	0 3 <1 0 174 246 45 1775 history1 6 2 <1 istory1 MODER NONE NONE NONE	0 0 <1 19 133 290 15 1800 history2 4 5 2 2 history2 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 ypm ypm	ASTM D5185m ASTM D5185m Y Usual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	<1 2 <li>&lt;1 10 171 300 44 2062  <p>current 4 3 0  current NONE NONE NONE NONE</p></li>	0 3 <1 0 174 246 45 1775 history1 6 2 <1 history1 MODER NONE NONE NONE NONE	0 0 <1 19 133 290 15 1800 history2 4 5 2 history2 A 5 2 NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm ppm p	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	<1 2 <1 10 171 300 44 2062  current 4 3 0  current NONE NONE NONE NONE NONE NONE NONE NON	0 3 <1 0 174 246 45 1775 history1 6 2 <1 MODER NONE NONE NONE NONE NONE NONE	0 0 ( <1 19 133 290 15 1800 history2 4 5 2 history2 4 5 2 NONE NONE NONE NONE NONE NONE NONE N
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 ppm ypm ppm p	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	<1 2 <li>&lt;1 10 171 300 44 2062  <p>current 4 3 0  current NONE NONE</p></li>	0 3 <1 0 174 246 45 1775 history1 6 2 <1 MODER NONE NONE NONE NONE NONE NONE NONE NONE	0 0 ( <1 19 133 290 15 1800 history2 4 5 2 history2 4 5 2 NONE NONE NONE NONE NONE NONE NONE N
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	<1 2 <li>&lt;1 10 171 300 44 2062  <p>current 4 3 0 current NONE NORML</p></li>	0 3 <1 0 174 246 45 1775 history1 6 2 <1 MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 0 (-1) 19 133 290 15 1800 history2 4 5 2 Vone 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 trs ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE NORML NORML	<1 2 <li>&lt;1 10 171 300 44 2062  <p>current 4 3 0 current NONE NORML NORML</p></li>	0 3 <1 0 174 246 45 1775 history1 6 2 <1 MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NORML NEG NEG	0 0 (<1 19 133 290 15 1800 history2 4 5 2 2 history2 A 5 2 2 NONE NONE NONE NONE NONE NONE NONE



# **OIL ANALYSIS REPORT**



	FLUID PRO	OPERTIES	method	limit/base	current	history1	hist
	Visc @ 40°C	cSt	ASTM D445	38.9	33.7	33.7	33.1
	SAMPLE IN	MAGES	method	limit/base	current	history1	hist
	Color				no image	no image	no im
	Bottom				no image	no image	no im
	GRAPHS						
	Ferrous Alloys	s					
	50 45						
	40 - nickel						
	35						
10000	25 -						
	20						
	10-						
	5			-			
	Aug28/23	Dec12/23		Apr30/24			
	₹ Non-ferrous N			A			
	18 copper 1						
	16 - Italian lead						
	12						
maa	8						
	0 6	WWW. R. R. C. LOW DISC. WHEN POST OFFICE ADDRESS OF TAXABLE PARTY IN PROPERTY IN PROPERTY IN PROPERTY.		-			
	4-						
	2	Margaret and Annual State Stat					
	Aug28/23	Dec12/23 -		Apr30/24			
				Ap			
	Viscosity @ 4	U-C					
	42-						
	40 Base						
10,01	38						
CST	34						
	32						
	30 - Abnormal						
	28	Dec12/23		Apr30/24			
	Aug28/23	5-4					



Unique Number : 11020862 Diagnosed : 10 May 2024 - Wes Davis Test Package : FLEET Contact: VINCENT BULLOCK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bullockvince514@gmail.com \* - 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)

Report Id: NWWVAR [WUSCAR] 06174809 (Generated: 05/10/2024 13:31:01) Rev: 1

> Submitted By: DAVID WEBB Page 2 of 2

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