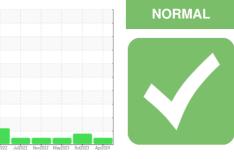


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **T297** Component **Transmission (Auto)** Fluid **COGNIS EMGARD 2805 ATF (36 hrs)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

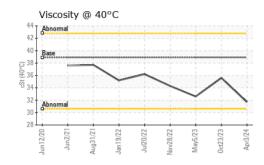
Fluid Condition

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

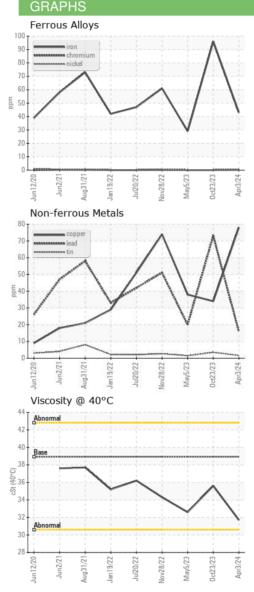
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121913	PCA0102210	PCA0095621
Sample Date		Client Info		03 Apr 2024	23 Oct 2023	05 May 2023
Machine Age	mls	Client Info		226514	175609	175609
Oil Age	mls	Client Info		151037	151037	24572
Oil Changed		Client Info		Changed	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	43	96	29
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	17	31	12
Lead	ppm	ASTM D5185m	>50	16	1 73	20
Copper	ppm	ASTM D5185m	>225	78	34	38
Tin	ppm	ASTM D5185m	>10	2	4	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		108	97	119
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Calcium	ppm	ASTM D5185m		136	92	123
Phosphorus	ppm	ASTM D5185m		301	250	300
Zino						
Zinc	ppm	ASTM D5185m		36	92	16
Sulfur	ppm	ASTM D5185m ASTM D5185m		36 2153	92 620	16 2314
-	ppm		limit/base	2153 current	620 history1	2314 history2
Sulfur CONTAMINAN Silicon	ppm ITS ppm	ASTM D5185m method ASTM D5185m	limit/base	2153	620 history1 5	2314 history2 4
Sulfur CONTAMINAN	ppm ITS	ASTM D5185m method ASTM D5185m ASTM D5185m	>20	2153 current	620 history1	2314 history2
Sulfur CONTAMINAN Silicon	ppm ITS ppm	ASTM D5185m method ASTM D5185m	>20	2153 current 6	620 history1 5	2314 history2 4
Sulfur CONTAMINAN Silicon Sodium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>20	2153 current 6 7	620 history1 5 6	2314 history2 4 5
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm TS ppm ppm ppm scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>20 >20 limit/base NONE	2153 current 6 7 1 current NONE	620 history1 5 6 3 history1 NONE	2314 history2 4 5 2 history2 NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm TS ppm ppm ppm scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	>20 >20 limit/base NONE NONE	2153 current 6 7 1 1 current NONE NONE	620 history1 5 6 3 history1 NONE NONE	2314 history2 4 5 2 history2 NONE NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	2153 current 6 7 1 1 current NONE NONE NONE	620 history1 5 6 3 history1 NONE NONE NONE	2314 history2 4 5 2 history2 NONE NONE NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	2153 current 6 7 1 1 current NONE NONE NONE NONE	620 history1 5 6 3 history1 NONE NONE NONE NONE	2314 history2 4 5 2 history2 NONE NONE NONE NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	2153 current 6 7 1 current NONE NONE NONE NONE NONE NONE	620 history1 5 6 3 history1 NONE NONE NONE NONE NONE NONE	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	2153 current 6 7 1 current NONE NONE NONE NONE NONE NONE NONE	620 history1 5 6 3 history1 NONE NONE NONE NONE NONE NONE NONE	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE NONE
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE	2153 current 6 7 1 current NONE NONE NONE NONE NONE NONE NONE NON	620 history1 5 6 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	2153 current 6 7 1 1 current NONE NONE NONE NONE NONE NONE NONE NON	620 history1 5 6 3 NONE NONE NONE NONE NONE NONE NONE NO	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE	2153 current 6 7 1 U Current NONE NONE NONE NONE NONE NONE NONE NON	620 history1 5 6 3 NONE NONE NONE NONE NONE NONE NONE NO	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	2153 current 6 7 1 1 current NONE NONE NONE NONE NONE NONE NONE NON	620 history1 5 6 3 history1 NONE NONE NONE NONE NONE NONE NONE NORML NORML NEG NEG	2314 history2 4 5 2 history2 NONE NONE NONE NONE NONE NONE NONE NON

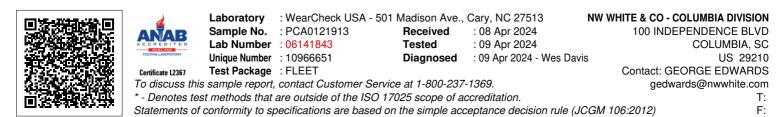


OIL ANALYSIS REPORT



	FLUID PROP	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	38.9	31.7	35.6	32.6
Color no image no image no image	SAMPLE IMA	GES	method	limit/base	current	history1	history2
	Color				no image	no image	no image
Bottom no image no image no image	Bottom				no image	no image	no image





Report Id: NWWCOL [WUSCAR] 06141843 (Generated: 04/09/2024 19:03:12) Rev: 1

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