

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id DT641 Component Transmiss Fluid COGNIS E

Component Transmission (Auto) Fluid COGNIS EMGARD 2805 ATF (15 mls)

# 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.

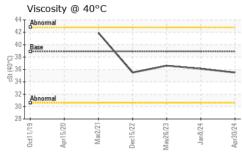
## Fluid Condition

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		PCA0124364	PCA0111628	PCA0095245
Sample Date		Client Info		30 Apr 2024	08 Jan 2024	26 May 2023
Machine Age	mls	Client Info		95585	95585	95585
Oil Age	mls	Client Info		74721	74721	74721
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	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	>220	67	70	60
Chromium	ppm	ASTM D5185m	>2	<1	0	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	>75	23	24	19
Lead	ppm	ASTM D5185m	>95	37	40	23
Copper	ppm	ASTM D5185m	>60	38	36	26
Tin	ppm	ASTM D5185m	>10	3	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		126	123	131
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		4	4	5
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		18	23	21
				175	188	182
Calcium	ppm	ASTM D5185m		170	100	
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		349	388	354
				-		354 105
Phosphorus	ppm	ASTM D5185m		349	388	
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	349 92	388 107	105
Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m		349 92 1872	388 107 1615 history1 6	105 1604
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		349 92 1872 current	388 107 1615 history1	105 1604 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ITS	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>25	349 92 1872 current 6	388 107 1615 history1 6	105 1604 history2 6
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	>25	349 92 1872 current 6 4	388 107 1615 history1 6 6	105 1604 history2 6 2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	349 92 1872 current 6 4 <1 current NONE	388 107 1615 history1 6 6 6 3	105 1604 history2 6 2 2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual	>25 >20 limit/base	349 92 1872 current 6 4 <1 current	388 107 1615 history1 6 6 6 3 3 history1	105 1604 history2 6 2 2 2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ITS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 3 history1 NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ITS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 3 history1 NONE NONE NONE NONE NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 3 history1 NONE NONE NONE NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ITS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 3 history1 NONE NONE NONE NONE NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	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 *Visual *Visual *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 7 history1 NONE NONE NONE NONE NONE NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur Sulfur CONTAMINAN Silicon Sodium Potassium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm TTS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 Iimit/base NONE NONE NONE NONE NONE	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE NONE NONE NONE	388 107 1615 history1 6 6 6 3 3 history1 NONE NONE NONE NONE NONE NONE NONE	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur Sulfur CONTAMINAN Silicon Sodium Potassium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm TTS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE NONE NONE NONE NON	388 107 1615 history1 6 6 6 3 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Phosphorus Zinc Sulfur Sulfur CONTAMINAN Sodium Potassium Potassium VISUAL White Metal VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE NON	349 92 1872 current 6 4 <1 current NONE NONE NONE NONE NONE NONE NONE NON	388 107 1615 history1 6 6 6 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	105 1604 history2 6 2 2 history2 NONE NONE NONE NONE NONE NONE NONE NON



# **OIL ANALYSIS REPORT**



Color no image no image no image	FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Color no image no image no image no image Bottom no image no image no image GRAPHS Ferrous Alloys On-ferrous Metals Viscosity @ 40°C	Visc @ 40°C	cSt	ASTM D445	38.9	35.5	36.1	36.6
Sottom no image no image no image no image	SAMPLE IMA	GES	method	limit/base	current	history1	history2
CRAPHS Ferrous Alloys	Color				no image	no image	no image
Ferrous Alloys	Bottom				no image	no image	no image
Non-ferrous Metals	GRAPHS					1	1
VearCheck USA - 501 Madison Ave., Cary, NC 27513	Non-ferrous Met	als Deci 2/25	May26/23	Api3024 Api3024 Api3024			

: 10 May 2024



: 10 May 2024 - Wes Davis Unique Number : 11020860 Diagnosed Test Package : FLEET 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)

Tested

SION E HIGHWAY VARNVILLE, SC US 29944 Contact: VINCENT BULLOCK bullockvince514@gmail.com T: F: