

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id DT837 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.

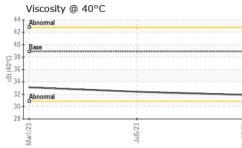
Fluid Condition

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

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101850	PCA0095269	PCA0087492
Sample Date		Client Info		22 Nov 2023	05 Jul 2023	01 Mar 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
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>220	68	57	39
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>75	20	16	12
Lead	ppm	ASTM D5185m	>95	7	5	5
Copper	ppm	ASTM D5185m	>60	27	21	15
Tin	ppm	ASTM D5185m	>10	3	3	2
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		47	62	61
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		<1	<1	1
Calcium	ppm	ASTM D5185m		121	126	124
	ppm ppm	ASTM D5185m ASTM D5185m		121 208	126 211	124 211
Calcium Phosphorus Zinc	ppm	ASTM D5185m				
Phosphorus				208	211	211
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	208 0	211 <1	211 7
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	208 0 1670	211 <1 1986	211 7 1855
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method		208 0 1670 current	211 <1 1986 history1	211 7 1855 history2
Phosphorus Zinc Sulfur CONTAMINAN ⁻ Silicon	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>25	208 0 1670 current 5	211 <1 1986 history1 5	211 7 1855 history2 5
Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	208 0 1670 current 5 5	211 <1 1986 history1 5 6	211 7 1855 history2 5 1
Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	208 0 1670 current 5 5 2	211 <1 1986 history1 5 6 1	211 7 1855 history2 5 1 4
Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base	208 0 1670 current 5 5 2 2 current	211 <1 1986 history1 5 6 1 1 history1	211 7 1855 history2 5 1 4 history2
Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal	ppm ppm pm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>25 >20 limit/base NONE	208 0 1670 5 5 2 2 current NONE	211 <1 1986 history1 5 6 1 1 history1 ▲ MODER	211 7 1855 history2 5 1 4 history2 VLITE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm TS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>25 >20 limit/base NONE NONE	208 0 1670 5 5 2 2 current NONE NONE	211 <1 1986 history1 5 6 1 1 history1 ▲ MODER NONE	211 7 1855 history2 5 1 4 history2 VLITE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	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	208 0 1670 5 5 2 current NONE NONE NONE	211 <1 1986 5 6 1 1 history1 A MODER NONE NONE	211 7 1855 5 1 4 <u>history2</u> VLITE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE NONE NONE	208 0 1670 5 5 2 current NONE NONE NONE NONE	211 <1 1986 history1 5 6 1 1 history1 MODER NONE NONE NONE	211 7 1855 5 1 4 <u>history2</u> VLITE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>25 >20 limit/base NONE NONE NONE NONE	208 0 1670 5 5 2 current NONE NONE NONE NONE NONE NONE	211 <1 1986 history1 5 6 1 1 history1 MODER NONE NONE NONE NONE NONE NONE	211 7 1855 history2 5 1 4 history2 VLITE NONE NONE NONE LIGHT
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE	208 0 1670 5 5 2 2 <u>current</u> NONE NONE NONE NONE NONE NONE NONE NON	211 <1 1986 history1 5 6 1 1 history1 MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE	211 7 1855 history2 5 1 4 history2 VLITE NONE NONE LIGHT NONE LIGHT NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm TS 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 *Visual	>25 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NORML NORML	208 0 1670 5 5 2 2 <u>current</u> NONE NONE NONE NONE NONE NONE NONE NON	211 <1 1986 history1 5 6 1 1 history1 MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	211 7 1855 history2 5 1 4 history2 VLITE NONE NONE NONE LIGHT NONE LIGHT NONE NORML NORML
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE	208 0 1670 5 5 2 2 <u>current</u> NONE NONE NONE NONE NONE NONE NONE NON	211 <1 1986 history1 5 6 1 1 history1 MODER NONE NONE NONE NONE NONE NONE NONE NONE NONE	211 7 1855 history2 5 1 4 history2 VLITE NONE NONE LIGHT NONE LIGHT NONE NONE



OIL ANALYSIS REPORT



Visc @ 40°C	cSt ASTN	1 D445 38.9	31	.9	32.4	33.1
SAMPLE IMA	GES me	thod limi	it/base d	current	history1	his
Color			no	image	no image	no i
Bottom			no	image	no image	no
GRAPHS						
Ferrous Alloys						
70 iron						
60 - chromium						
50-						
40 -						
30						
20						
10-						
	53	23				
Mar1/23	Jul5/23	Nov22/23				
– Non-ferrous Met	als	2				
30 copper 1						
25 - tip						
20-						
15						
15-						
10						
5 -						
0						
Mar1/23	Jul5/23	Nov22/23				
≥ Viscosity @ 40°(No				
44 Abnormal						
42 -						
40 Base						
38						
36-						
34						
32 Abnormal						
30 -						
28	23-	23				
Mar1/23	Jul5/23	Nov22/23				
	E01 Madiaan A	va Carv NO	27513	NW WH	ITE & CO - BEAL	JFORT
: WearCheck USA	- SUT IVIAUISUIT AV	/e., Oaiv. Iw	121313			
: PCA0101850	Received	: 12 Dec 2	023		1491 YENMAS	SEE HI
: WearCheck USA : PCA0101850 : 06032970 : 10782761			023 023			

Labo Samp Lab N Uniqu

Test Certificate L2367 To discuss this sample * - 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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