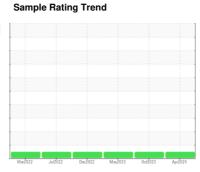


OIL ANALYSIS REPORT







Machine Id **DT670**

Component Transmission (Auto)

COGNIS EMGARD 2805 ATF (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

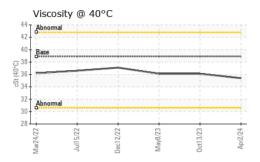
The condition of the oil is acceptable for the time in service.

WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >160 58 43 69 Chromium ppm ASTM D5185m >5 0 0 <1 Vickel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Adminium ppm ASTM D5185m >50 14 12 15 Lead ppm ASTM D5185m >50 24 23 14 Lead ppm ASTM D5185m >50 24 23 14 Dopper ppm ASTM D5185m >10 <1 1 2 Araadium ppm ASTM D5185m 0 0 0 0 Cadamium ppm ASTM D5185m 130 144 157 Baron ppm ASTM D5185m 0 0 0			Mar2022	Jul2022 Dec2022	May2023 Oct2023	Apr2024	
Sample Number Client Info PCA0111567 PCA0101838 PCA0095225 Sample Date Client Info 02 Apr 2024 13 Oct 2023 08 May 2023 09 May 2023 0	SAMDLE INFORM	MATION	method	limit/base	current	history1	history?
Sample Date Client Info O2 Apr 2024 13 Oct 2023 08 May 2023		IATION		IIIIII/Dase		•	
Machine Age mls Client Info 0							
Dil Age	•				•		-
Client Info							
NORMAL NORMAL NORMAL NORMAL	-	mls			-		
WEAR METALS	-		Client Info				
Water	·				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >160 58 43 69 chromium ppm ASTM D5185m >5 0 0 <1 dickel ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 14 12 15 Lead ppm ASTM D5185m >50 24 23 14 Lead ppm ASTM D5185m >50 24 23 14 Lead ppm ASTM D5185m >10 <1 1 2 Araadium ppm ASTM D5185m 0 0 0 0 Cadamium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 <t< th=""><th>CONTAMINATI</th><th>ON</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CONTAMINATI	ON	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG	NEG	NEG
Description	WEAR METALS	S	method	limit/base	current	history1	history2
Sickel	Iron	ppm	ASTM D5185m	>160	58	43	69
Description	Chromium	ppm	ASTM D5185m	>5	0	0	<1
Silver	Nickel	ppm	ASTM D5185m	>5	0	0	0
ASTM D5185m SO	Titanium	ppm	ASTM D5185m		0	0	0
ASTM D5185m SO	Silver	ppm	ASTM D5185m	>5	0	0	0
Description	Aluminum	ppm	ASTM D5185m	>50	14	12	15
ASTM D5185m D0	Lead	ppm	ASTM D5185m	>50	24	23	14
ASTM D5185m Part	Copper	ppm	ASTM D5185m	>225	18	14	15
Anadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 130 144 157 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 6 1 Magnesium ppm ASTM D5185m 26 24 8 Calcium ppm ASTM D5185m 216 198 109 Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Bullfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 5 6 5	Tin		ASTM D5185m	>10	<1	1	2
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 130 144 157 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 6 1 Mangaese ppm ASTM D5185m 26 24 8 Magnesium ppm ASTM D5185m 26 24 8 Oalcium ppm ASTM D5185m 216 198 109 Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5	Vanadium		ASTM D5185m		0	0	0
Soron ppm ASTM D5185m 130	Cadmium		ASTM D5185m		0	0	0
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 5 6 1 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		130	144	157
Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 26 24 8 Calcium ppm ASTM D5185m 216 198 109 Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Soldium ppm ASTM D5185m >20 5 5 6 Soldium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 26 24 8 Calcium ppm ASTM D5185m 216 198 109 Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Sodium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE Veliow Metal scalar *	Molybdenum	ppm	ASTM D5185m		5	6	1
Calcium ppm ASTM D5185m 216 198 109 Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Godium ppm ASTM D5185m >20 0 2 2 Potassium ppm ASTM D5185m >20 0 2 2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Poteris scalar *Visual NONE NONE NONE NO	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 386 368 358 Zinc ppm ASTM D5185m 102 106 41 Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Sodium ppm ASTM D5185m >20 0 2 2 Potassium ppm ASTM D5185m >20 0 2 2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Obebris scalar *Visual NONE NONE NONE NONE Operis scalar *Visual NORML NORML	Magnesium	ppm	ASTM D5185m		26	24	8
Contamination Contaminatio Contamination Contamination Contamination Contamination	Calcium	ppm	ASTM D5185m		216	198	109
Sulfur ppm ASTM D5185m 2239 2131 1680 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Sodium ppm ASTM D5185m 5 6 5 Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>386</th> <td>368</td> <td>358</td>	Phosphorus	ppm	ASTM D5185m		386	368	358
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 6 Sodium ppm ASTM D5185m 5 6 5 Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Codor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Zinc	ppm	ASTM D5185m		102	106	41
Solition	Sulfur				2239	2131	1680
Sodium ppm ASTM D5185m 5 6 5 Potassium ppm ASTM D5185m >20 0 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE	CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Silicon	ppm	ASTM D5185m	>20	5	5	6
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Sodium	ppm	ASTM D5185m		5	6	5
Mhite Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML DOTOR NORML NORML NORML NORML NORML	Potassium	ppm	ASTM D5185m	>20	0	2	2
Vellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Final Stalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar		NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.1	NEG	NEG	NEG
	Free Water						

Submitted By: DAVID WEBB

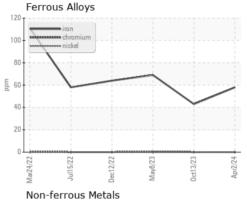


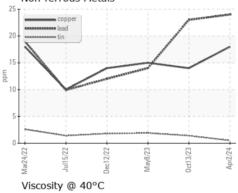
OIL ANALYSIS REPORT

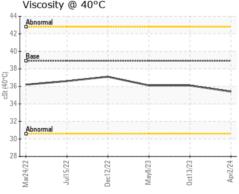


FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	38.9	35.4	36.1	36.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS









Certificate 12367

Laboratory Sample No.

: PCA0111567 Lab Number : 06158180 Unique Number : 10993603 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 23 Apr 2024 **Tested** : 24 Apr 2024

Diagnosed : 25 Apr 2024 - Angela Borella

NW WHITE & CO - BEAUFORT DIVISION 1491 YENMASSEE HIGHWAY VARNVILLE, SC

US 29944

Contact: VINCENT BULLOCK bullockvince514@gmail.com

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)

T:

F: