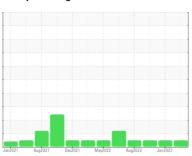


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **DT742**Component
Transmission (Auto)

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 oil

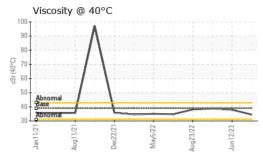
Fluid Condition

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

Sample Number	AIF (Q15)		Jan 2021	Aug2021 Dec2021	May2022 Aug2022 Ju	in2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 232635 205772 151317	Sample Number		Client Info		PCA0107458	PCA0095628	PCA007956
Dil Age	Sample Date		Client Info		09 Nov 2023	12 Jun 2023	13 Sep 2022
Cilichanged Cilient Info N/A N/A N/A N/A NORMAL NORMAL NORMAL NORMAL	Machine Age	mls	Client Info		232635	205772	151317
NORMAL NORMAL NORMAL NORMAL	Oil Age	mls	Client Info		232635	151317	151317
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >22 0 33 77 41 Chromium ppm ASTM D5185m >2 0 0 0 0 Nickel ppm ASTM D5185m >5 0 <1 0	Oil Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >5 0 <1	WEAR METALS	S	method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>220	33	77	41
Description Description	Chromium	ppm	ASTM D5185m	>2	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	Γitanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>5	0	0	0
Copper ppm ASTM D5185m >60 8 22 12 Tin ppm ASTM D5185m >10 0 2 2 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m <1	Aluminum	ppm	ASTM D5185m	>75	20	45	17
Copper ppm ASTM D5185m >60 8 22 12 Tin ppm ASTM D5185m >10 0 2 2 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 92 142 141 Barium ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m <1	_ead				3	18	14
Trin	Copper	ppm	ASTM D5185m	>60	8	22	12
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 92 142 141 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m <1					0	2	2
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 92 142 141 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m -1 4 3 Manganese ppm ASTM D5185m 0 -1 -1 Magnesium ppm ASTM D5185m 4 23 22 Calcium ppm ASTM D5185m 115 121 111 Phosphorus ppm ASTM D5185m 246 379 375 Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 4 5	√anadium	• •	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 92 142 141	Cadmium		ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 4 3 Manganese ppm ASTM D5185m 0 <1	- Boron	ppm	ASTM D5185m		92	142	141
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 4 23 22 Calcium ppm ASTM D5185m 115 121 111 Phosphorus ppm ASTM D5185m 246 379 375 Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 history1 history1 history1 history2 ppm ASTM D5185m >25 4 5 3 3 0 3 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 0 0 VISUAL method limit/base current history1 history1 history1 history2 0 0 NONE NONE <	3arium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 4 23 22 Calcium ppm ASTM D5185m 115 121 111 Phosphorus ppm ASTM D5185m 246 379 375 Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 history1 history1 history1 history2 4 5 3 3 0 3 3 0 3 0 3 0 3 0 3 0 3 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 <	Volybdenum	ppm	ASTM D5185m		<1	4	3
Calcium ppm ASTM D5185m 115 121 111 Phosphorus ppm ASTM D5185m 246 379 375 Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	Vanganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus ppm ASTM D5185m 246 379 375 Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m		4	23	22
Zinc ppm ASTM D5185m 16 56 50 Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	Calcium	ppm	ASTM D5185m		115	121	111
Sulfur ppm ASTM D5185m 1728 2002 1908 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m		246	379	375
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	Zinc	ppm	ASTM D5185m		16	56	50
Silicon ppm ASTM D5185m >25 4 5 3 Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1 2 0 VISUAL method limit/base current history1 history1 history1 history1 history1 history1 history1 history2 history2 NONE	Sulfur	ppm	ASTM D5185m		1728	2002	1908
Sodium ppm ASTM D5185m 3 0 3 Potassium ppm ASTM D5185m >20 <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 2 0 VISUAL method limit/base current history1 history1 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Silicon	ppm	ASTM D5185m	>25	4	5	3
VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		3	0	3
White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE	otassium	ppm	ASTM D5185m	>20	<1	2	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONE	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONE	Nhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Debris 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	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORM	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor scalar *Visual NORML NORML NORML NORML	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Emulsified Water	scalar		>0.1	NEG	NEG	NEG
Free Water scalar *Visual NEG NEG NEG	Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES method limit/base current history1 histo	FLUID PROPE	RTIES	method	limit/base	current	history1	history2

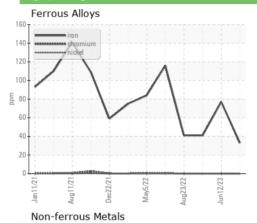


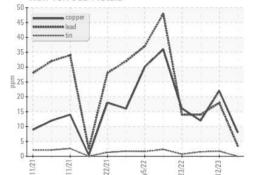
OIL ANALYSIS REPORT

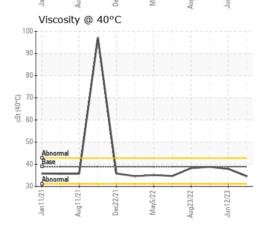


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10741062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0107458 : 06007300

Received : 14 Nov 2023 Diagnosed : 16 Nov 2023 Diagnostician : Sean Felton

NW WHITE & CO - COLUMBIA DIVISION

100 INDEPENDENCE BLVD COLUMBIA, SC US 29210

Contact: GEORGE EDWARDS

gedwards@nwwhite.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:

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