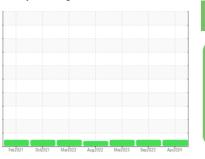


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id
DT760
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.

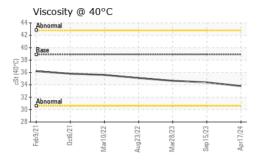
### **Fluid Condition**

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

Sample Number         Client Info         PCA0091260         PCA0103249         PCA0103249         PCA00103249         PCA001032424         PCA001032424         PCA00103244         PCA00103244         PCA00103244         PCA00103244         PCA00103244         PCA00103244         PCA00103244         PCA00103244         PCA00103244	history2 NEG history2 80 0 0 0 0 41 30 27
Sample Date	Mar 2023 7511 bt Changd DRMAL history2 NEG history2 80 0 0 0 0 0 41 30 27 3
Machine Age         mls         Client Info         179366         152645         122645           Oil Age         mls         Client Info         152645         76300         0           Oil Changed         Client Info         Not Changd         Changed         Not Changed           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1           Water         WC Method         >0.1         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >22.0         60         114         80           Chromium         ppm         ASTM D5185m         >2.2         0         <1	7511  of Changed DRMAL  history2  NEG  history2  80  0  0  0  41  30  27  3
Machine Age         mls         Client Info         179366         152645         122645           Oil Age         mls         Client Info         152645         76300         0           Oil Changed         Client Info         Not Changd         Changed         Not Ch           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         Imitibase         current         history1           Water         WC Method         >0.1         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >22.0         60         114         80           Chromium         ppm         ASTM D5185m         >2.2         0         <1	history2 NEG history2 80 0 0 0 0 41 30 27
Contained   Client Info   Not Changed   Normal	history2 NEG history2 80 0 0 0 0 41 30 27
Contained   Client Info   Not Changed   Normal	history2 NEG history2 80 0 0 0 0 41 30 27
NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   CONTAMINATION   method   limit/base   current   history1   history1   history1   history1   method   limit/base   current   history1   history	history2 NEG history2 80 0 0 0 0 41 30 27
Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >22.0         60         114         80           Chromium         ppm         ASTM D5185m         >2         0         -1         0           Nickel         ppm         ASTM D5185m         >5         0         0         0           Nickel         ppm         ASTM D5185m         >5         0         0         0           OSilver         ppm         ASTM D5185m         >5         0         0         0           Aluminum         ppm         ASTM D5185m         >5         0         0         0           Lead         ppm         ASTM D5185m         >95         19         51         30           Copper         ppm         ASTM D5185m         >60         25         40         27           Tin         ppm         ASTM D5185m         >10         <1         4         3           Vanadium         ppm         ASTM D5185m         0         0         0         0 </td <td>NEG history2 80 0 0 0 0 41 30 27</td>	NEG history2 80 0 0 0 0 41 30 27
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >220         60         114         80           Chromium         ppm         ASTM D5185m         >2         0         <1	history2 80 0 0 0 0 0 41 30 27 3
Iron	80 0 0 0 0 0 41 30 27
Chromium         ppm         ASTM D5185m         >2         0         <1         0           Nickel         ppm         ASTM D5185m         >5         0         0         0           Titanium         ppm         ASTM D5185m         >5         0         0         0           Silver         ppm         ASTM D5185m         >5         0         0         0           Aluminum         ppm         ASTM D5185m         >5         0         0         0           Aluminum         ppm         ASTM D5185m         >95         19         51         30           Copper         ppm         ASTM D5185m         >60         25         40         27           Tin         ppm         ASTM D5185m         >10         <1         4         3           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his           Boron         ppm         ASTM D5185m         0         0         0         0	0 0 0 0 41 30 27
Nickel	0 0 0 41 30 27 3
Titanium	0 0 41 30 27 3
Silver	0 41 30 27
Aluminum ppm ASTM D5185m >75 28 67 41  Lead ppm ASTM D5185m >95 19 51 30  Copper ppm ASTM D5185m >60 25 40 27  Fin ppm ASTM D5185m >10 <1 4 3  Vanadium ppm ASTM D5185m >0 0 0  Cadmium ppm ASTM D5185m 0 0 0  Cadmium ppm ASTM D5185m 0 0 0  ADDITIVES method limit/base current history1 history1  Boron ppm ASTM D5185m 0 0 0  Molybdenum ppm ASTM D5185m 0 0 0  Molybdenum ppm ASTM D5185m 0 0 0  Manganese ppm ASTM D5185m 6 1 1 1  Manganese ppm ASTM D5185m 46 11 9  Calcium ppm ASTM D5185m 46 11 9  Calcium ppm ASTM D5185m 316 325 288  Zinc ppm ASTM D5185m	41 30 27 3
Lead         ppm         ASTM D5185m         >95         19         51         30           Copper         ppm         ASTM D5185m         >60         25         40         27           Fin         ppm         ASTM D5185m         >10         <1         4         3           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0         0           Boron         ppm         ASTM D5185m         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0         0           Boron         ppm         ASTM D5185m         0         2         2         2           Boron         ppm         ASTM D5185m         209         123         119           Calcium	30 27 3
Lead         ppm         ASTM D5185m         >95         19         51         30           Copper         ppm         ASTM D5185m         >60         25         40         27           Tin         ppm         ASTM D5185m         >10         <1         4         3           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         80         97         86           Barium         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         0         2         2         2           Magnesium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         <	27 3
Copper         ppm         ASTM D5185m         >60         25         40         27           Fin         ppm         ASTM D5185m         >10         <1	3
Tin         ppm         ASTM D5185m         >10         <1         4         3           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2         Mylite Metal         scalar         *Vi	
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         80         97         86           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         6         1         1           Manganese         ppm         ASTM D5185m         46         11         9           Calcium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         39         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         his           Solicon         ppm         ASTM D5185m         >25         4         8         6	
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history1         history1           Boron         ppm         ASTM D5185m         80         97         86           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         6         1         1         1           Manganese         ppm         ASTM D5185m         0         2         2         2           Magnesium         ppm         ASTM D5185m         46         11         9         2         2         2           Phosphorus         ppm         ASTM D5185m         209         123         119         2         288         2         2         288         2<	0
Soron   ppm   ASTM D5185m   80   97   86   86   87   88   87   88   88   8	0
Barium	history2
Molybdenum         ppm         ASTM D5185m         6         1         1           Manganese         ppm         ASTM D5185m         0         2         2           Magnesium         ppm         ASTM D5185m         46         11         9           Calcium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         history1         history1           Solicon         ppm         ASTM D5185m         >25         4         8         6           Sodium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         history1         history1           White Metal         scalar         *Visual         NONE         NONE         NONE	86
Manganese         ppm         ASTM D5185m         0         2         2           Magnesium         ppm         ASTM D5185m         46         11         9           Calcium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         history1         history1         history1         history1         history2         4         7         4         Potassium         ppm         ASTM D5185m         >20         3         3         1         NOI         NOIE         NOIE <td< td=""><td>0</td></td<>	0
Magnesium         ppm         ASTM D5185m         46         11         9           Calcium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         history1         history1         history1         history2         4         8         6         6         Sodium         ppm         ASTM D5185m         >20         3         3         1         1         VISUAL         method         limit/base         current         history1         history1         history1         history1         history1         history1         history1         history1         history2         NONE         NONE<	1
Calcium         ppm         ASTM D5185m         209         123         119           Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         history1         history1         history1         history1         history1         history2         4         7         4         4         7	2
Phosphorus         ppm         ASTM D5185m         316         325         288           Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         his           Silicon         ppm         ASTM D5185m         >25         4         8         6           Sodium         ppm         ASTM D5185m         4         7         4           Potassium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         his           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE	9
Zinc         ppm         ASTM D5185m         89         50         42           Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         his           Silicon         ppm         ASTM D5185m         >25         4         8         6           Sodium         ppm         ASTM D5185m         4         7         4           Potassium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         his           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE	119
Sulfur         ppm         ASTM D5185m         2483         2137         154           CONTAMINANTS         method         limit/base         current         history1         history1         history1         history1         history1         history1         history1         history1         history1         4         7         4         8         6         3         3 <td>288</td>	288
CONTAMINANTS         method         limit/base         current         history1         4         7         4         8         6         8         6         8         6         8         6         8         6         8         6         8         6         3         4         7         4         3 </td <td>42</td>	42
Silicon         ppm         ASTM D5185m         >25         4         8         6           Sodium         ppm         ASTM D5185m         4         7         4           Potassium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         history1         history1         history1           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE	1542
Sodium         ppm         ASTM D5185m         4         7         4           Potassium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         history1         history1         history1         NONE         NONE <t< td=""><td>history2</td></t<>	history2
Potassium         ppm         ASTM D5185m         >20         3         3         1           VISUAL         method         limit/base         current         history1         history1         history1         history1         history1         NOIE           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE	6
VISUAL method limit/base current history1 history1 history1 None Mone None None None None None None None N	4
White Metal scalar *Visual NONE NONE NONE NO	1
	history2
Yellow Metal scalar *Visual NONE 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 <b>NONE</b> NONE NO	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE	NONE
	NORML
	NORML
	NEG
	NEG

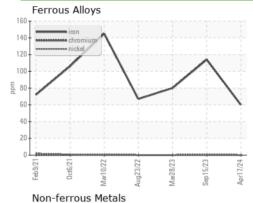


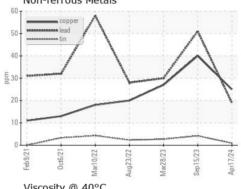
# **OIL ANALYSIS REPORT**

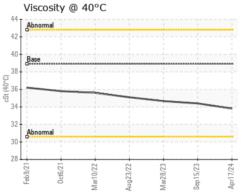


FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	38.9	33.8	34.4	34.66
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

### **GRAPHS**









Laboratory Sample No.

: PCA0091260 Lab Number : 06158616 Unique Number : 10994039 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024

**Tested** : 24 Apr 2024 Diagnosed : 25 Apr 2024 - Jonathan Hester

NW WHITE & CO - ANDERSON DIVISION

2605 RIVER RD PIEDMONT, SC US 29673

Contact: James Threatt jthreatt@nwwhite.com T: (864)918-4646

Certificate 12367

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)