

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



T332
Component
Transmission

Machine Id

Component Transmission (Auto)

DEXRON III (--- GAL)

### 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.

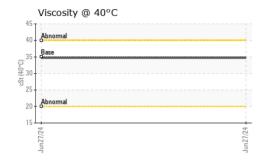
### **Fluid Condition**

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

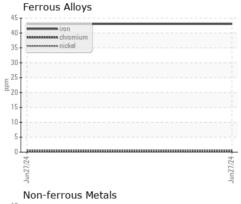
SAMPLE INFORMATION   method   limit/base   current   history1   history2					Jun2024		
Sample Number   Client Info   PCA0116159	SAMDLE INEODA	MATION	mothod	limit/base	current	history1	history?
Client Info   27 Jun 2024		VIATION		IIIIII/Dase			HISTOLYZ
Machine Age         mls         Client Info         25411             Oil Changed         Client Info         0             Sample Status         Image: Contract Info         NoRIMAL            CONTAMINATION         method         Imit base         current         history1         history2           Water         WC Method         >0.1         NEG             WEAR METALS         method         Imit base         current         history1         history2           Iron         ppm         ASTM 05185m         >5         <1             Chromium         ppm         ASTM 05185m         >5         <1             Nickel         ppm         ASTM 05185m         >5         <1             Silver         ppm         ASTM 05185m         >50         8             Aluminum         ppm         ASTM 05185m         >50         8             Copper         ppm         ASTM 05185m         >10         2            Cadadium         ppm         AS							
Oil Age         mls         Client Info         Not Changed             Sample Status         Norman               CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >56         <1             Chromium         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >50         8             Aluminum         ppm         ASTM D5185m         >10         2            Tin         ppm         ASTM D5185m         >10         2            Vanadiu							
Oil Changed Sample Status         Client Info         Not Changd NORMAL							
NORMAL   Section   Secti	· ·	mls			-		
CONTAMINATION         method         limit/base         current         history1         history2           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >5         <1	-		Client Info				
Water         WC Method         >0.1         NEG            WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >160         43             Nickel         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >5         <1             Aluminum         ppm         ASTM D5185m         >50         8             Aluminum         ppm         ASTM D5185m         >50         3             Lead         ppm         ASTM D5185m         >50         3             Copper         ppm         ASTM D5185m         >10         2             Tin         ppm         ASTM D5185m         <1             Cadmium         ppm         ASTM D5185m         100             Ba	-				NORMAL		
WEAR METALS         method         limit/base         current         history2           Iron         ppm         ASTM D5185m         >=160         43             Chromium         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Titanium         ppm         ASTM D5185m         >5         <1             Aluminum         ppm         ASTM D5185m         >5         <1             Aluminum         ppm         ASTM D5185m         >50         8             Lead         ppm         ASTM D5185m         >10         2             Copper         ppm         ASTM D5185m         >10         2             Tin         ppm         ASTM D5185m         >1         2             Cadmium         ppm         ASTM D5185m         100             Barium         ppm         ASTM D5185m         1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG		
Chromium	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>160	43		
Titanium	Chromium	ppm	ASTM D5185m	>5	<1		
Silver	Nickel	ppm	ASTM D5185m	>5	<1		
Aluminum	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m	>5	<1		
Copper         ppm         ASTM D5185m         >2255         9             Tin         ppm         ASTM D5185m         >10         2             Vanadium         ppm         ASTM D5185m         <1             Cadmium         ppm         ASTM D5185m         <1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         100             Barium         ppm         ASTM D5185m         1             Molybdenum         ppm         ASTM D5185m         1             Manganese         ppm         ASTM D5185m         1             Manganese         ppm         ASTM D5185m         1             Manganesium         ppm         ASTM D5185m         1             Calcium         ppm         ASTM D5185m         263             Zinc         ppm         ASTM D5185m         5 <t< th=""><th>Aluminum</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;50</th><th>8</th><th></th><th></th></t<>	Aluminum	ppm	ASTM D5185m	>50	8		
Tin         ppm         ASTM D5185m         >10         2             Vanadium         ppm         ASTM D5185m         <1	Lead	ppm	ASTM D5185m	>50	3		
Vanadium         ppm         ASTM D5185m         <1	Copper	ppm	ASTM D5185m	>225	9		
Cadmium         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>10	2		
Cadmium         ppm         ASTM D5185m         <1	Vanadium	ppm	ASTM D5185m		<1		
Boron	Cadmium				<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		100		
Manganese         ppm         ASTM D5185m         1             Magnesium         ppm         ASTM D5185m         1             Calcium         ppm         ASTM D5185m         263             Phosphorus         ppm         ASTM D5185m         5             Zinc         ppm         ASTM D5185m         5             Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         >20         6             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal	Barium	ppm	ASTM D5185m		1		
Magnesium         ppm         ASTM D5185m         1             Calcium         ppm         ASTM D5185m         263             Phosphorus         ppm         ASTM D5185m         5             Zinc         ppm         ASTM D5185m         5             Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         >20         6             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE	Molybdenum	ppm	ASTM D5185m		<1		
Calcium         ppm         ASTM D5185m         73             Phosphorus         ppm         ASTM D5185m         263             Zinc         ppm         ASTM D5185m         5             Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         20         4             Sodium         ppm         ASTM D5185m         22             Potassium         ppm         ASTM D5185m         20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar	Manganese	ppm	ASTM D5185m		1		
Phosphorus         ppm         ASTM D5185m         263             Zinc         ppm         ASTM D5185m         5             Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185m         20         4             Sodium         ppm         ASTM D5185m         20         6             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           VISUAL         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE<	Magnesium	ppm	ASTM D5185m		1		
Zinc         ppm         ASTM D5185m         5             Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         20         6             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE	Calcium	ppm	ASTM D5185m		73		
Sulfur         ppm         ASTM D5185m         1287             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML	Phosphorus	ppm	ASTM D5185m		263		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML	Zinc	ppm	ASTM D5185m		5		
Silicon         ppm         ASTM D5185m         >20         4             Sodium         ppm         ASTM D5185m         2              Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar	Sulfur	ppm	ASTM D5185m		1287		
Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         >0.1         NEG             Emulsified Water         scalar         *Visual         >0.1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         6             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         >0.1         NEG             Emulsified Water         scalar         *Visual         >0.1	Silicon	ppm	ASTM D5185m	>20	4		
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NONE         NONE            Sand/Dirt         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML            Odor         scalar         *Visual         NORML         NORML            Emulsified Water         scalar         *Visual         >0.1         NEG	Sodium		ASTM D5185m		2		
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar         *Visual         >0.1         NEG	Potassium	ppm	ASTM D5185m	>20	6		
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	White Metal	scalar	*Visual	NONE	NONE		
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.1         NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML COdor scalar *Visual NORML NORML NORML CODOR NORML NORML NORML CODOR NORML NORML CODOR NORML NORML NORML CODOR NORML NORML NORML CODOR NORML NORML NORML NORML NORML NORML NORML CODOR NORML NO	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG	Appearance	scalar	*Visual	NORML	NORML		
	• •	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		

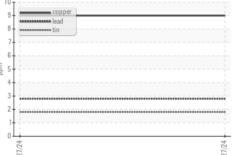


## **OIL ANALYSIS REPORT**



FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	35.0	34.7		
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image





Viscosity @ 40°C	,
45 40 Abnormal	
35 - Quantity of the state of t	
(2-0+) 30 (2-0+) 30	
Abnormal	
20 - Automa	-
Jun27/24	Jun27/24



Certificate 12367

Laboratory

**Sample No.** : PCA0116159 Lab Number : 06224923 Unique Number : 11103120

Test Package : FLEET

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

Received : 01 Jul 2024 Tested Diagnosed

: 02 Jul 2024 : 02 Jul 2024 - Don Baldridge

**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)

Contact/Location: GEORGE EDWARDS - NWWCOL

T:

F: