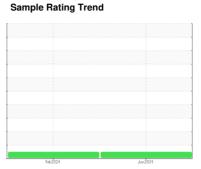


# **OIL ANALYSIS REPORT**









Machine Id **DT881** Front Differential **GEAR OIL SAE 75W90** 

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

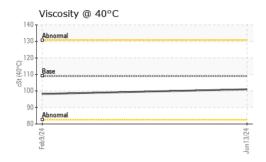
### **Fluid Condition**

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

SAMPLE INFORMATION   method   minitibase   current   mistory1   mistory2							
Sample Number   Client Info   PCA0124358   PCA0111641	( GAL)			Feb 2024	Jun2024		
Sample Number   Client Info   PCA0124358   PCA0111641	SAMPLE INFOR	MATION	l method	limit/hase	current	history1	history2
Sample Date		1017 (1101)		mmusacc		•	,
Machine Age							
Oil Age         hrs         Client Info         N/A         N/A         N/A           Oil Changed         Client Info         N/A         N/A         N/A           Sample Status         Client Info         N/A         N/A         N/A           CONTAMINATION         method         limit/base         current         history1         history2           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >1200         264         179            Chromium         ppm         ASTM D5185m         >8         2         2            Nickel         ppm         ASTM D5185m         >8         2         2            Silver         ppm         ASTM D5185m         >4         0         0            Lead         ppm         ASTM D5185m         >30         4         2            Copper         ppm         ASTM D5185m         >5         0         <1            Tin         ppm         ASTM D5185m         >5         0         <1	•	bro					
Contamped   Client Info   N/A   N/A   N/A   NORMAL   NO					_		
CONTAMINATION	•	1115			· ·		
Water			Ciletit IIIIO				
Water         WC Method         >.2         NEG         NEG		ION	and the sale	Line it the second			
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185m         >1200         264         179		ION				•	nistoryz
Pron		0					history 0
Chromium						•	· ·
Nickel	_				-		
Titanium							
Silver							
Aluminum				>4	-		
Lead				0.0			
Copper         ppm         ASTM D5185m         >50         1         <1					-		
Tin							
Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         400         164         174            Barium         ppm         ASTM D5185m         200         0         <1							
ADDITIVES				>5			
ADDITIVES		ppm			-		
Boron		ppm			0	0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         12         <1	Boron				-		
Manganese         ppm         ASTM D5185m         3         3            Magnesium         ppm         ASTM D5185m         12         0         2            Calcium         ppm         ASTM D5185m         150         0         0            Phosphorus         ppm         ASTM D5185m         1650         1167         1049            Zinc         ppm         ASTM D5185m         125         4         0            Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            Potassium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NON	Barium	ppm	ASTM D5185m	200	0		
Magnesium         ppm         ASTM D5185m         12         0         2            Calcium         ppm         ASTM D5185m         150         0         0            Phosphorus         ppm         ASTM D5185m         1650         1167         1049            Zinc         ppm         ASTM D5185m         125         4         0            Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            Potassium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE	Molybdenum	ppm	ASTM D5185m	12			
Calcium         ppm         ASTM D5185m         150         0         0            Phosphorus         ppm         ASTM D5185m         1650         1167         1049            Zinc         ppm         ASTM D5185m         125         4         0            Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           VISUAL         method         limit/base         current         history1         history2           VISUAL         NONE         NONE         NONE         NONE            Visual         NONE         NONE         NONE         NONE            Visual         NONE	Manganese	ppm	ASTM D5185m			3	
Phosphorus         ppm         ASTM D5185m         1650         1167         1049            Zinc         ppm         ASTM D5185m         125         4         0            Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           VISUAL         method         limit/base         current         history1         history2           VISUAL         method         limit/base         current         history1         history2           VISUAL         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal <th>Magnesium</th> <th>ppm</th> <th></th> <th>12</th> <th></th> <th></th> <th></th>	Magnesium	ppm		12			
Zinc         ppm         ASTM D5185m         125         4         0            Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            Potassium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE         NONE            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual	Calcium	ppm	ASTM D5185m	150	0	0	
Sulfur         ppm         ASTM D5185m         22500         25655         23707            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            Potassium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORML         NORML         NORML         NORML	Phosphorus	ppm	ASTM D5185m	1650	1167	1049	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         >20         2         3            Potassium         ppm         ASTM D5185m         >20         2         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NONE         NONE         NONE           Appearance         scalar         *Visual         NORML         NORML         NORML         NORML	Zinc	ppm	ASTM D5185m	125	4	0	
Silicon         ppm         ASTM D5185m         >230         162         147            Sodium         ppm         ASTM D5185m         <1	Sulfur	ppm	ASTM D5185m	22500	25655	23707	
Sodium         ppm         ASTM D5185m         <1	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 3  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE  Yellow Metal scalar *Visual NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE  Silt scalar *Visual NONE NONE NONE  Silt scalar *Visual NONE NONE NONE  Debris scalar *Visual NONE NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE  Appearance scalar *Visual NORML NORML NORML  Debris scalar *Visual NORML NORML NORML  Sand/Dirt scalar *Visual NORML NORML NORML  Sand/Dodor scalar *Visual NORML NORML NORML  Debris scalar *Visual NORML NORML NORML  Sand/Dirt NORML NORML NORML	Silicon	ppm	ASTM D5185m	>230	162	147	
White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG	Sodium	ppm	ASTM D5185m		<1	3	
White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE         NONE            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NORML         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML            Odor         scalar         *Visual         >.2         NEG         NEG	Potassium	ppm	ASTM D5185m	>20	2	3	
Yellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	
Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >.2 NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >.2 NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water scalar *Visual >.2 NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	
Free Water egglar *Visual NEC NEC	Emulsified Water			>.2		NEG	
1 166 VValGI Scalal VISUAL NEG INC	Free Water	scalar	*Visual		NEG	NEG	

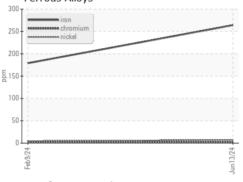


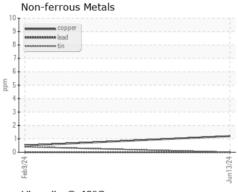
## **OIL ANALYSIS REPORT**

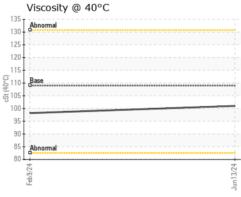




## Ferrous Alloys











Certificate 12367

Laboratory

Sample No. Lab Number : 06226588 Unique Number : 11110081

: PCA0124358

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Jul 2024

Tested : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis

1491 YENMASSEE HIGHWAY VARNVILLE, SC US 29944

**NW WHITE & CO - BEAUFORT DIVISION** 

Contact: DAVID WEBB 63DAVIDWDAVID@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) Report Id: NWWVAR [WUSCAR] 06226588 (Generated: 07/09/2024 17:28:06) Rev: 1

Submitted By: DAVID WEBB

T: (864)973-1607