

Machine Id **K0110110** Component **Diesel Engine** Fluid **{not provided} (--- GAL)**

RECOMMENDATION Resample at the next service interval to monitor. Please specify the

component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Metal levels are typical for a components first oil change.

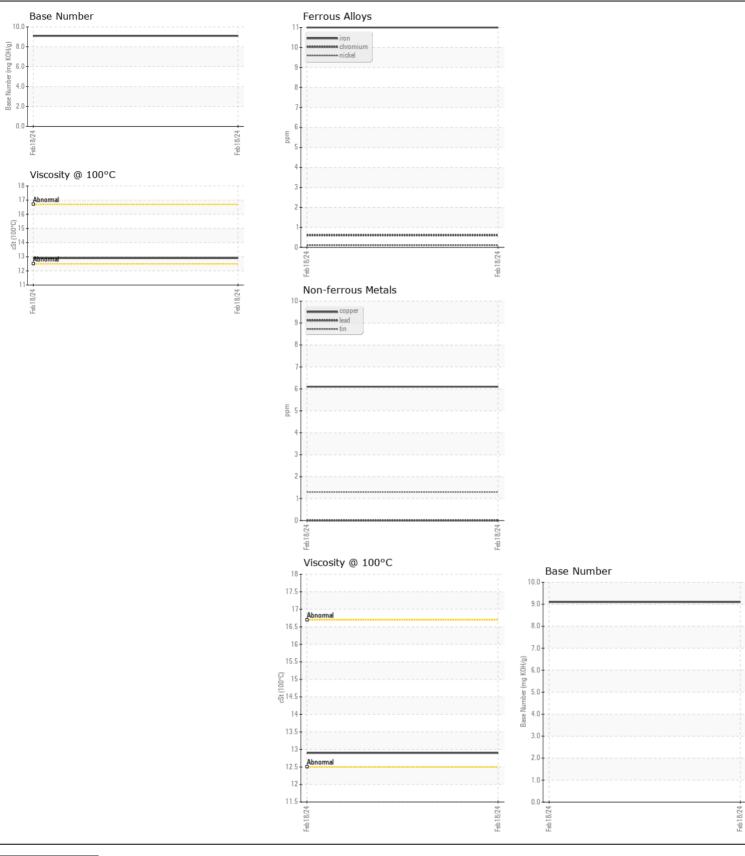
CONTAMINATION

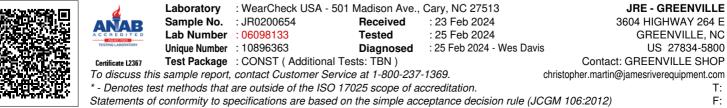
There is no indication of any contamination in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test UOM Method Limit/An Current History1 History2 Sample Number Client Info JR0200554 Sample Date Client Info 18 Feb 2024 Oil Age hrs Client Info 0 Oil Changed Client Info 0 Oil Changed Client Info Changed Filter Age hrs Client Info Changed Sample Status NORMAL Iron ppm ASTM D5155m<>-40 0 Nickel ppm ASTM D5155m<>-40 0 Silver ppm ASTM D5155m<>-40 0 Silver ppm ASTM D5155m<>-40 0 Yanadium ppm ASTM D5155m<>1							
Sample Date Client Info 18 Feb 2024 Machine Age hrs Client Info 882 Oil Age hrs Client Info 0 Oil Changed Client Info Changed Filter Age hrs Client Info Changed Sample Status NORMAL Iron ppm ASTM D5185n<>100 11 Chromium ppm ASTM D5185n<>20 <1 Silver ppm ASTM D5185n<>3 0 Silver ppm ASTM D5185n<>20 8 Copper ppm ASTM D5185n<>330 6 Vanadium ppm ASTM D5185n<>20 1 Vanadum ppm ASTM D5185n<>20 1 <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 882 Filter Age hrs Client Info 0 Filter Age Client Info Changed Filter Changed Client Info Changed Sample Status NORMAL Iron ppm ASTM D5185m >20 <1 Chromium ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >20 <1 Aluminum ppm ASTM D5185m >20 8 Aluminum ppm ASTM D5185m >20 8 Aluminum ppm ASTM D5185m >30 6 Vanadium ppm ASTM D5185m >25 8 Veltow Metal scalar Yisual NONE<	Sample Number		Client Info		JR0200654		
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Chromium ppm ASTM D5185m >20 <1							
Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	11		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 8 Lead ppm ASTM D5185m >40 0 Copper ppm ASTM D5185m >330 6 Vanadium ppm ASTM D5185m >330 6 White Metal scalar *Visual NONE NONE Vanadium ppm ASTM D5185m >20 1 Valow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 1 Fuel WC Method >0.2 NEG Glycol WC Method >0.2 NEG -	Chromium	ppm	ASTM D5185m	>20	<1		
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Tin ppm ASTM D5185m >15 1 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Soot % % *ASTM D7844 >3 0.1 Soot % % *ASTM D7624 >20 7.7 Sulfation Abs/tmm<*ASTM D7152 >30 20.8 Sulfation Abs/tmm<*ASTM D7152 >30 20.8 Sodi % % *AS	Copper		ASTM D5185m	>330	6		
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White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >25 8 Potassium ppm ASTM D5185m >20 1 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Soot % % *ASTM D7844 >3 0.1 Soot % % *ASTM D7844 >3 0.1 Sulfation Abs/cm *ASTM D7844 >30 20.8 Sulfation Abs/inm *ASTM D7815 >30 20.8 Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML NORML	Vanadium		ASTM D5185m		0		
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Fuel WC Method >5 <1.0	Silicon	ppm	ASTM D5185m	>25	8		
Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.7 Sulfation Abs/cm *ASTM D7618 20.8 Sulfation scalar *Visual NONE Appearance scalar *Visual NORML NORML Molybdenum ppm ASTM D5185m 198	Potassium	ppm	ASTM D5185m	>20	1		
Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 7.7 Sulfation Abs/cm *ASTM D7614 >30 20.8 Sulfation Abs/cm *ASTM D7615 >30 20.8 Sulfation Abs/cm *ASTM D7615 >30 20.8 Sulfation Abs/cm *Visual NONE NONE Debris scalar *Visual NOR NORE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 0	Fuel		WC Method	>5	<1.0		
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Silt scalar *Visual NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NONE Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG Sodium ppm ASTM D5185m 198 Boron ppm ASTM D5185m 0 Malganesium ppm ASTM D5185m 675 Magnesium ppm ASTM D5185m	Nitration	Abs/cm	*ASTM D7624	>20	7.7		
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Molybdenum ppm ASTM D5185m 195 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 675 Calcium ppm ASTM D5185m 1631 Calcium ppm ASTM D5185m 1631 Phosphorus ppm ASTM D5185m 881 Zinc ppm ASTM D5185m 1066 Sulfur ppm ASTM D5185m 2929 Oxidation Abs/.tmm<*ASTM D7414<>25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1	Boron	ppm			198		
Manganese ppm ASTM D5185m <1							
Magnesium ppm ASTM D5185m 675 Calcium ppm ASTM D5185m 1631 Phosphorus ppm ASTM D5185m 881 Zinc ppm ASTM D5185m 1066 Sulfur ppm ASTM D5185m 2929 Oxidation Abs/.tmm *ASTM D7414 >25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1	•	ppm					
Calcium ppm ASTM D5185m 1631 Phosphorus ppm ASTM D5185m 881 Zinc ppm ASTM D5185m 1066 Sulfur ppm ASTM D5185m 2929 Oxidation Abs/.tmm *ASTM D7414 >25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1	-	ppm					
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Zinc ppm ASTM D5185m 1066 Sulfur ppm ASTM D5185m 2929 Oxidation Abs/.tmm *ASTM D7414 >25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1		ppm					
Sulfur ppm ASTM D5185m 2929 Oxidation Abs/.tmm *ASTM D7414 >25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1	Phosphorus	ppm	ASTM D5185m				
Oxidation Abs/.1mm *ASTM D7414 >25 15.0 Base Number (BN) mg KOH/g ASTM D2896 9.1		ppm			1066		
Base Number (BN) mg KOH/g ASTM D2896 9.1	Sulfur	ppm	ASTM D5185m		2929		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0		
Visc @ 100°C cSt ASTM D445	Base Number (BN)	mg KOH/g	ASTM D2896		9.1		
	Visc @ 100°C	cSt	ASTM D445		12.9		





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