

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id **520079** 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

All component wear rates are normal.

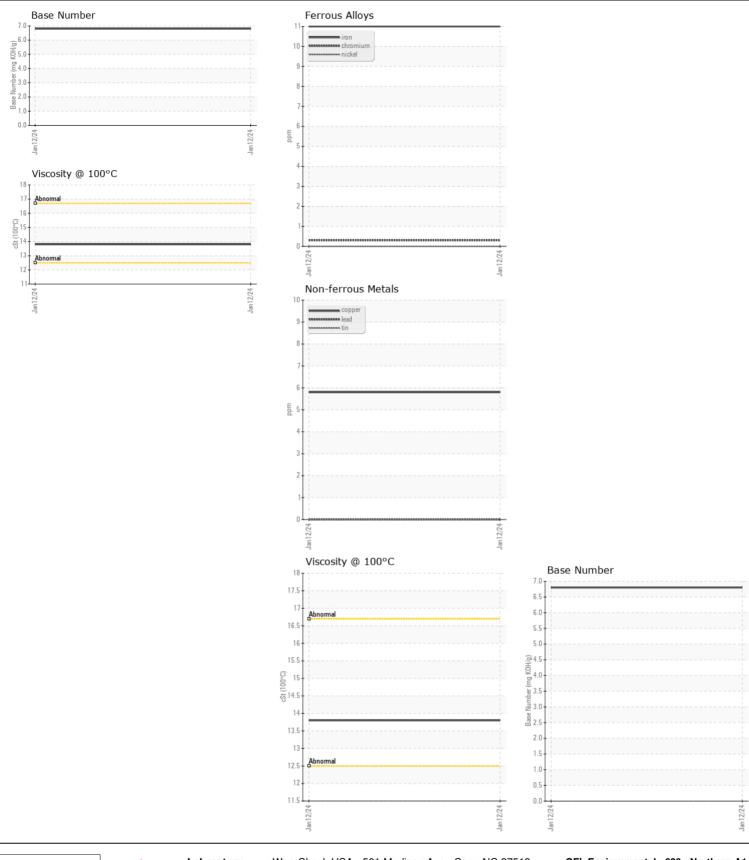
## CONTAMINATION

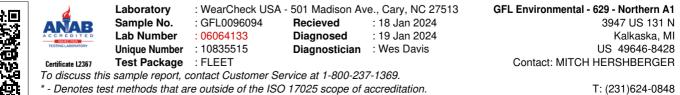
There is no indication of any contamination in the oil.

### **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/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096094		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		7626		
Oil Age	hrs	Client Info		700		
Filter Age	hrs	Client Info		700		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185m	>100	11		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		13		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	6		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	5		
Potassium	ppm	ASTM D5185m	>20	10		
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7		
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	>0.2	NEG		
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Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m		102		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		55		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		724		
Calcium	ppm	ASTM D5185m		1478		
Phosphorus	ppm	ASTM D5185m		764		
Zinc	ppm	ASTM D5185m		924		
Sulfur	ppm	ASTM D5185m	05	3236		
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6		
Base Number (BN)	mg KOH/g	ASTM D2896		6.8		
Visc @ 100°C	cSt	ASTM D445		13.8		





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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