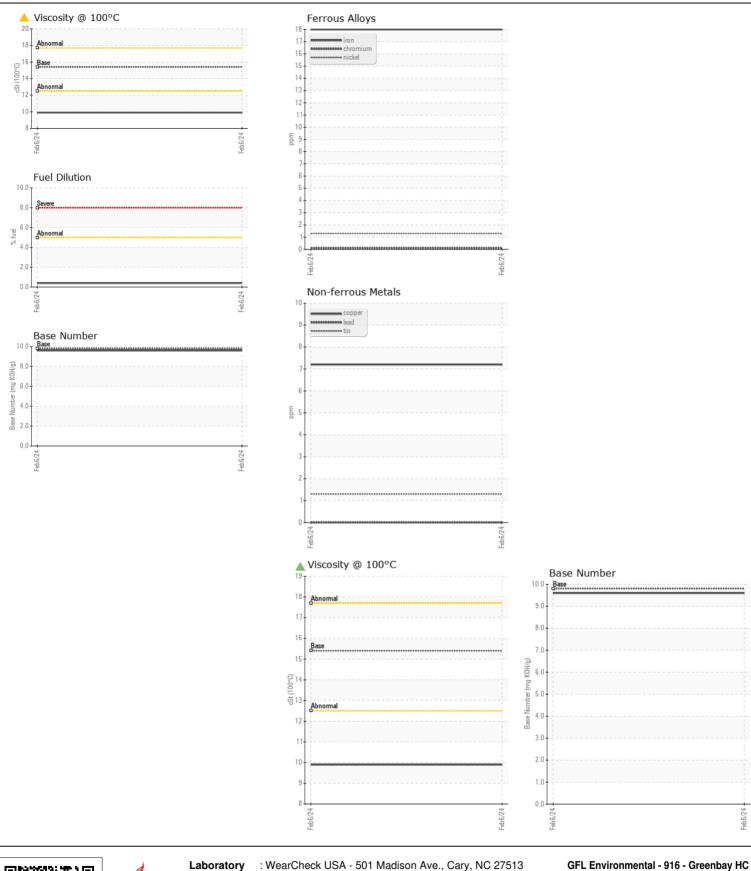
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id **714044**

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0110137		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		06 Feb 2024		
	Machine Age	hrs	Client Info		49		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ATTENTION		
WEAD			AOTM DEADE	00	40		
WEAR	Iron	ppm	ASTM D5185m		18		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>2	1		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m	>0	0		
	Vanadium White Metal	ppm	ASTM D5185m	NONE	-		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Tellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	52		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		9		
	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.8		
	Sulfation	Abs/.1mm	*ASTM D7415		24.6		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	0	393		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		112		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		713		
	Calcium	ppm	ASTM D5185m		1294		
	Phosphorus	ppm	ASTM D5185m		723		
	Zinc	ppm	ASTM D5185m		819		
	Sulfur	ppm	ASTM D5185m		2377		
	Oxidation	Abs/.1mm	*ASTM D7414		19.2		
	Base Number (BN)				9.6		
	Visc @ 100°C	cSt	ASTM D445		▲ 9.9		





Laboratory Sample No.

Lab Number : 06085774 Unique Number : 10873219

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110137 Received : 12 Feb 2024 **Tested**

: 14 Feb 2024 Diagnosed

: 14 Feb 2024 - Jonathan Hester **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

1799 County Trunk PP DePere, WI US 54115 Contact: Travis Runge

travis.runge@gflenv.com T: (920)351-2341

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)