WEAR CONTAMINATION **FLUID CONDITION**

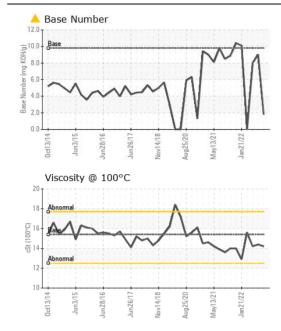
NORMAL NORMAL ABNORMAL

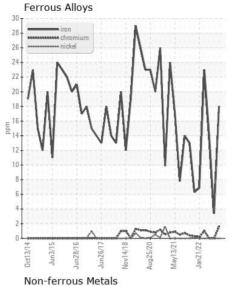


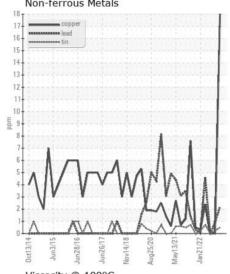
Area (P500891) **2364**

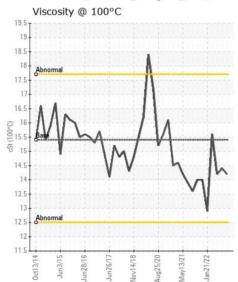
Component Diesel Engine

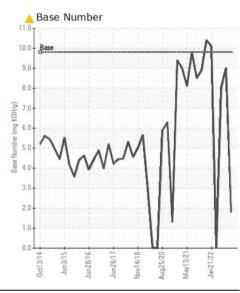
Test UOM Method Limit/Abn Current History Sample Number Sample Number Sample Number Sample Number Sample Date Client Info Machine Age Nrs Client Info Changed Client Info Changed Client Info Changed Client Info Changed Changed Client Info Changed Changed Client Info Changed	21 Apr 2 486130 600 600 dd Chang
Machine Age hrs Client Info 486489 486248 A86248 A86	486136 600 600 d Chang d Chang AL NORM 14 0
Machine Age hrs Client Info 486489 486248 Oil Age hrs Client Info 600 600 600 Filter Age hrs Client Info 600 600 600 Oil Changed Client Info Changed Changed Client Info Changed C	600 600 d Chang d Chang AL NORM 14 0
Filter Age	600 d Chang d Chang AL NORM 14 0 0
Oil Changed Client Info Changed Changed Client Info Changed Ch	d Chang d Chang AL NORM 14 0
Filter Changed Sample Status Client Info Sample Status ABNORMAL NORM	d Chang AL NORM 14 0
NORMAL N	14 0 0
Iron ppm ASTM D5185m >120 18 3	14 0 0
Chromium ppm ASTM D5185m >20 2 0 Nickel ppm ASTM D5185m >5 0 0 Titanium ppm ASTM D5185m >2 <1 0 Silver ppm ASTM D5185m >2 <1 0 Aluminum ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 0 Lead ppm ASTM D5185m >40 2 <1 Copper ppm ASTM D5185m >330 18 0	0
Chromium ppm ASTM D5185m >20 2 0 Nickel ppm ASTM D5185m >5 0 0 Titanium ppm ASTM D5185m >2 <1 0 Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 0 Lead ppm ASTM D5185m >40 2 <1 Copper ppm ASTM D5185m >330 18 0	0
All component wear rates are normal. Nickel ppm ASTM D5185m >5 0 0 Titanium ppm ASTM D5185m >2 <1 0 Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 0 Lead ppm ASTM D5185m >40 2 <1 Copper ppm ASTM D5185m >330 18 0	0
Titanium ppm ASTM D5185m >2 <1	
Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 0 Lead ppm ASTM D5185m >40 2 <1	U
Aluminum ppm ASTM D5185m >20 2 0 Lead ppm ASTM D5185m >40 2 <1	0
Lead ppm ASTM D5185m >40 2 <1 Copper ppm ASTM D5185m >330 18 0	1
Copper ppm ASTM D5185m >330 18 0	0
	0
	0
VanadiumppmASTM D5185m00	0
White Metal scalar *Visual NONE NONE NOIE	
Yellow Metal scalar *Visual NONE NONE NOIE	
CONTAMINATION Silicon ppm ASTM D5185m >25 2 2	2
Potassium ppm ASTM D5185m >20 3 <1 There is no indication of any contamination in the oil.	<1
Fuel	<1.0
Water WC Method >0.2 NEG NEC	
Glycol WC Method NEG NEC	
Soot % % *ASTM D7844 >4 2.1 0.4	3.3
Nitration Abs/cm *ASTM D7624 >20 6.2 4.7	8.7
Sulfation Abs/.1mm *ASTM D7415 >30 18.8 17.1	23.5
Silt scalar *Visual NONE NONE NO	
Debris scalar *Visual NONE NONE NOI	
Sand/Dirt scalar *Visual NONE NONE NOI	
Appearance scalar *Visual NORML NORML NORML NORML NORML NORML NORML	
Odor scalar *Visual NORML NORML NOFML NOFM	
Elitabiliea Water Scalar Visual 20.2 NEG NEC	IVL
FLUID CONDITION Sodium ppm ASTM D5185m 0 <1	2
Boron ppm ASTM D5185m 0 <1 2 The BN level is low.	5
Banum ppm Asimusiosiii 0 <1 0	0
MolybdenumppmASTM D5185m605960	59
Manganese ppm ASTM D5185m 0 0	<1
Magnesium ppm ASTM D5185m 1010 866 985	937
Calcium ppm ASTM D5185m 1070 980 106	
Phosphorus ppm ASTM D5185m 1150 928 103	
Zinc ppm ASTM D5185m 1270 1128 126	
Sulfur ppm ASTM D5185m 2060 2839 332	
Oxidation Abs/.1mm *ASTM D7414 >25 11.0 12.3	14.2
Base Number (BN) mg KOH/g ASTM D2896 9.8 ▲ 1.8 9.0	8.0
Visc @ 100°C cSt ASTM D445 15.4 14.2 14.2	14.2













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0101802 : 06076664 : 10858755

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 01 Feb 2024 : 02 Feb 2024 Diagnosed Diagnostician : Don Baldridge

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: ARCILIO RUEZ

aruiz@gflenv.com

T: F:

* - 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)