WEAR CONTAMINATION FLUID CONDITION

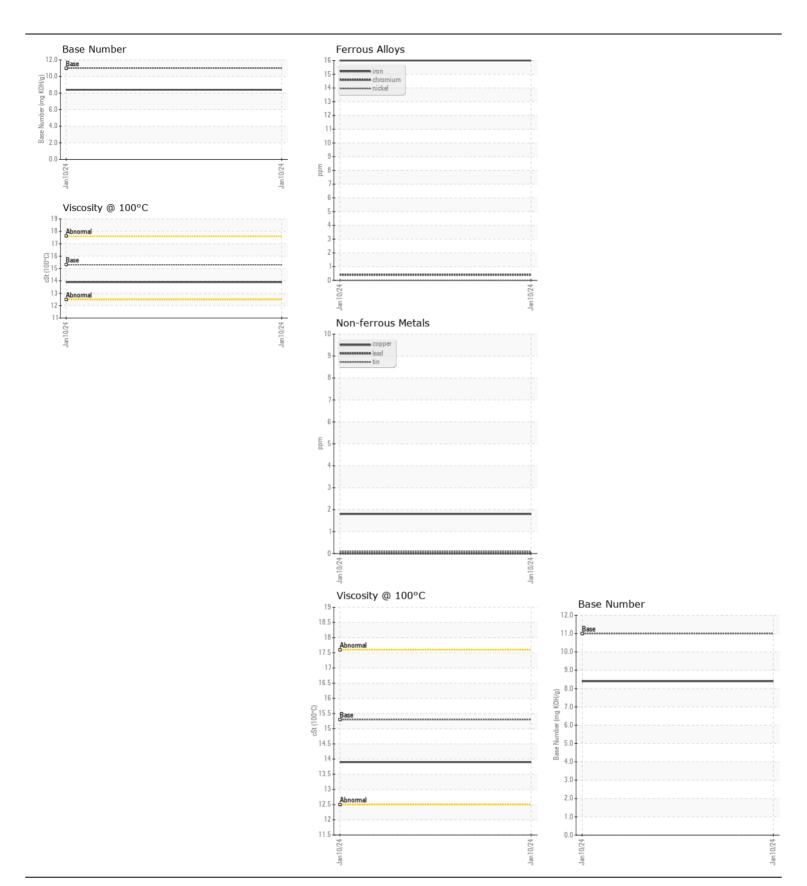
NORMAL NORMAL

(TB5791) Machine Id 928039

Component Diesel Engine

CUMMINS CUMMINS BLUE 2000 15W40 (--- GAL)

CUMMINS CUMMINS BLUE 2000 15W40 (GA	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOCHMEND/(TION	Sample Number		Client Info		GFL0108412		
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		196		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>165	16		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>20	<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>90	2		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		15		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>7.5	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	6.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	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		
ELUID CONDITION	Codius		ACTM DE10E		44		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	1 7	41		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6		
	Barium	ppm	ASTM D5185m		0		
	Monganage	ppm	ASTM D5185m	0.0	64		
	Manganese	ppm	ASTM D5185m	10	0		
	Magnesium	ppm	ASTM D5185m		953		
	Calcium	ppm	ASTM D5185m		1104		
	Phosphorus	ppm	ASTM D5185m		1054		
	Zinc	ppm	ASTM D5185m		1262		
	Sulfur	ppm Abo/1mm	ASTM D5185m		2991		
	Oxidation	Abs/.1mm	*ASTM D7414		14.7		
	Base Number (BN)		ASTM D2896		8.4		
	Visc @ 100°C	cSt	ASTM D445	15.3	13.9		







Certificate L2367

Laboratory Sample No. Lab Number

: GFL0108412 : 06060706 Unique Number : 10832088 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 17 Jan 2024 Diagnostician : Jonathan Hester GFL Environmental - 918 - Hartland HC 630 E Industrial Drive

Hartland, WI US 53029 Contact: David McCall

david.mccall@gflenv.com T: (262)369-3069

* - 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)