NORMAL NORMAL NORMAL

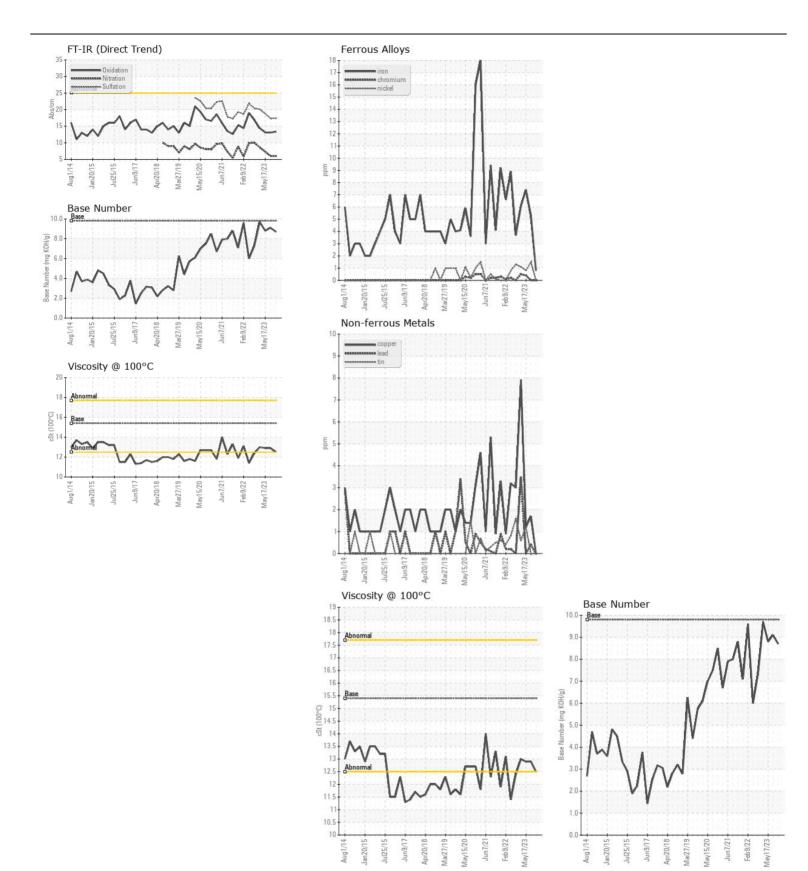


(ML3835)

2402 Component Diesel Engine

TPO CANADA DIIRON SHP 15W40 (6 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0104074	GFL0068125	GFL006814
	Sample Date		Client Info		11 Apr 2024	02 Nov 2023	17 May 202
	Machine Age	hrs	Client Info		4133	3900	7158
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	<1	5	7
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	2	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	-	0	2	1
	Tin	ppm	ASTM D5185m		0	0	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 25	າ	Л	1
CONTAMINATION	Potassium	ppm	ASTM D5185m		3 0	4 0	4 5
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.4	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.0	7.3
	Sulfation	Abs/.1mm	*ASTM D7024		17.4	17.4	18.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
THUR CONDITION						,	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	1	4	/
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		9	8	15
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		54	58	59
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		859	917	917
	Calcium	ppm	ASTM D5185m		1007	1060	1104
	Phosphorus	ppm	ASTM D5185m		1000	1012	1045
	Zinc	ppm	ASTM D5185m		1136	1209	1273
	Sulfur	ppm	ASTM D5185m		3264	3108	3914
	Oxidation	Abs/.1mm	*ASTM D7414		13.3	13.1	13.1
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	9.1	8.8
	Visc @ 100°C	cSt	ASTM D445	4 - 4	12.5	12.9	12.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06148285 Unique Number: 10978363 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104074

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

Received **Tested** Diagnosed

: 15 Apr 2024 : 15 Apr 2024

: 15 Apr 2024 - Wes Davis

GFL Environmental - 028 - Weldon

2211 US Highway 301

Halifax, NC US 27839

Contact: TRAVIS PORCH

tporch@gflenv.com T: (252)532-3344

* - 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)

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