WEAR CONTAMINATION FLUID CONDITION

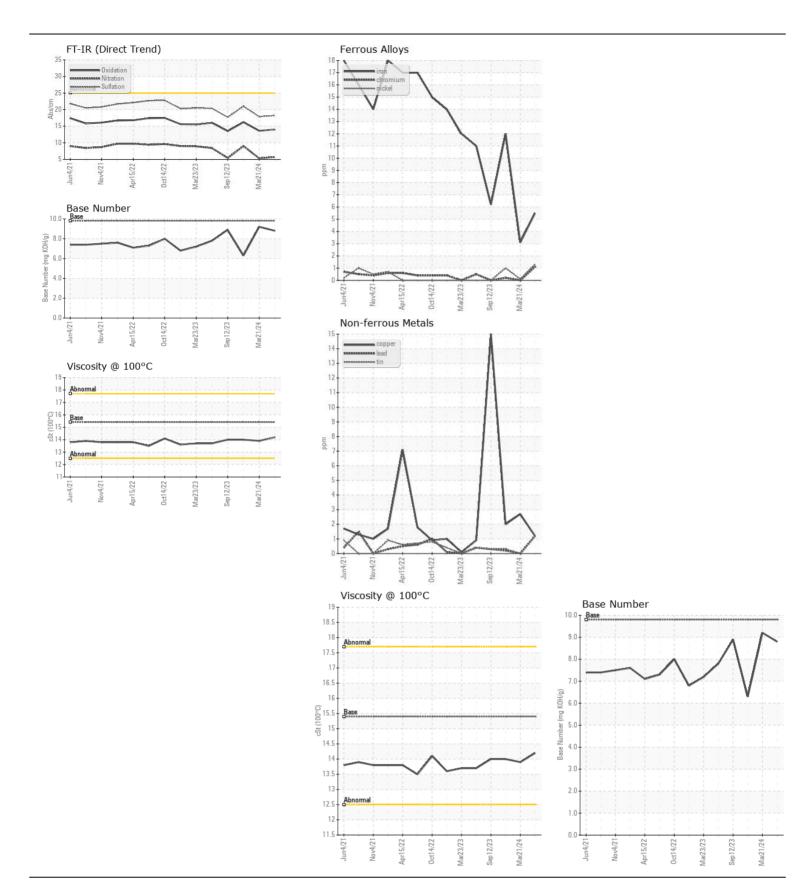
NORMAL NORMAL



Machine Id
7844M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

PETRO CANADA DURON SHP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	COM	Client Info	Littleyton	GFL0116872	GFL0116931	GFL0107073
Resample at the next service interval to monitor.	Sample Date		Client Info		16 Apr 2024	21 Mar 2024	20 Dec 2023
	Machine Age	hrs	Client Info		9920	9711	9296
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		6	3	12
	Chromium	ppm	ASTM D5185m		1	0	<1
	Nickel	ppm	ASTM D5185m		1	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		3	<1	2
	Lead	ppm		>40	1	0	<1
	Copper	ppm	ASTM D5185m		1	3	2
	Tin	ppm	ASTM D5185m	>15	1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	0	2
There is no indication of any contamination in the oil.	Fuel	ррпп		>3.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 4	0.1	0.2	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	5.3	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		18.2	17.9	21.0
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	3	<1
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		82	57	60
	Manganese	ppm	ASTM D5185m		1	<1	0
	Magnesium	ppm	ASTM D5185m		1337	972	911
	Calcium	ppm	ASTM D5185m		1502	1091	1075
	Phosphorus	ppm	ASTM D5185m		1622	1034	925
	Zinc	ppm	ASTM D5185m		1799	1203	1194
	Sulfur	ppm	ASTM D5185m		5321	3706	2699
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	13.6	16.2
	Base Number (BN)		ASTM D2896		8.8	9.2	6.3
	Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	14.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06152874 Unique Number: 10982952

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116872

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

Received **Tested** Diagnosed Test Package : FLEET

: 18 Apr 2024 : 19 Apr 2024

: 22 Apr 2024 - Sean Felton

GFL Environmental - 465 - Pontiac 888 Baldwin Pontiac, MI

US 48340 Contact: Ricky Matthews rickymathews@gflenv.com

* - 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)

T: (586)825-9514