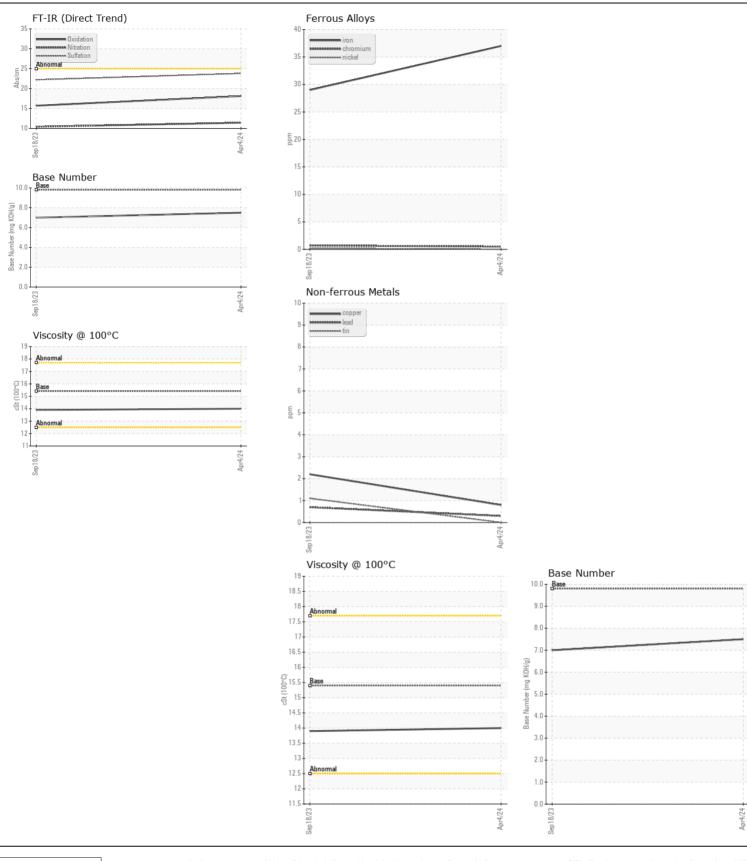
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

(MC12185)
Machine Id
821022
Component
Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
D. I. all and a state of	Sample Number		Client Info		GFL0106240	GFL0066987	
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Apr 2024	18 Sep 2023	
	Machine Age	hrs	Client Info		17602	16945	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAD	lran		ACTM DE10Em	. 100	07	20	
WEAR	Iron	ppm	ASTM D5185m		37	29	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
'	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		<1	2	
	Tin	ppm	ASTM D5185m	>15	0	1	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	8	
SSITAIIIIIATISII	Potassium	ppm	ASTM D5185m		<1	2	
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	7 0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>4	2.3	2.1	
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.4	
	Sulfation	Abs/.1mm	*ASTM D7415		23.8	22.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	12	
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		<1	5	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		61	61	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		886	913	
	Calcium	ppm	ASTM D5185m		1042	1141	
	Phosphorus	ppm	ASTM D5185m		953	992	
	Zinc	ppm	ASTM D5185m		1191	1213	
	Sulfur	ppm	ASTM D5185m		3158	3456	
	Oxidation	Abs/.1mm	*ASTM D7414		18.1	15.7	
	Base Number (BN)				7.5	7.0	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.9	







Certificate L2367

Laboratory

Sample No.

: GFL0106240 **Lab Number** : 06157495 Unique Number : 10992918 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024

**Tested** : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis

GFL Environmental - 916 - Greenbay HC 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)