WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

Area

(YA134217)

10753C

Natural Gas Engine

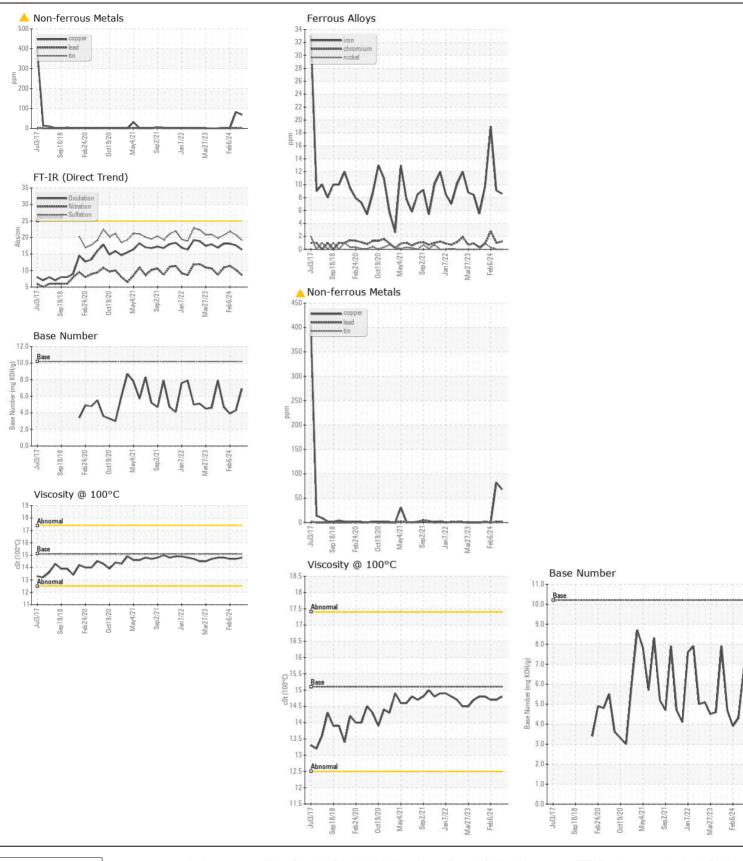
PETRO CANADA DURON GEO LD 15W40 (28 (QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0118400	,	GFL0098142
	Sample Date		Client Info		30 May 2024	07 May 2024	06 Feb 2024
	Machine Age	hrs	Client Info		6764	6764	6764
	Oil Age	hrs	Client Info		172	579	224
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	9	9	19
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	1	1	3
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>9	2	1	3
	Lead	ppm	ASTM D5185m		2	1	0
	Copper	ppm	ASTM D5185m		△ 68	<u></u> 82	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	4	3	8
	Potassium	ppm	ASTM D5185m	>20	5	22	1 00
There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.2	11.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.8	21.8
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	8	16
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		23	4	8
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		52	48	52
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		630	532	557
	Calcium	ppm	ASTM D5185m		1737	1596	1451
	Phosphorus	ppm	ASTM D5185m		922	694	718
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1045 3029	939 2766	949 2325
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		3029 16.3	17.6	18.1
	Base Number (BN)				6.9	4.3	3.9
	Dase Mulliper (DIN)	nig KON/g	AO I WI D2030	10.2	0.9	4.0	0.9

Visc @ 100°C cSt

ASTM D445 15.1

14.8

14.7







Certificate L2367

Laboratory Sample No.

: GFL0118400 Lab Number : 06195092 Unique Number : 11057215 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024

Tested : 31 May 2024 Diagnosed

: 31 May 2024 - Sean Felton

GFL Environmental - 017 - Durham

148 Stone Park Court

Durham, NC US 27703

Contact:

F: (919)598-1852

bill.waring@wearcheck.com T: (919)596-1363

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)