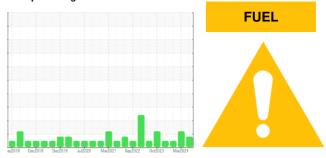


OIL ANALYSIS REPORT

Sample Rating Trend



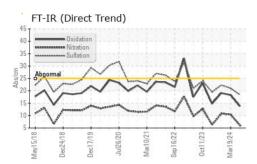
Machine Id

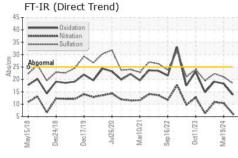
801026 Component Diesel Engine PETRO CANADA DURON SHP 15W40 (22 LTR)

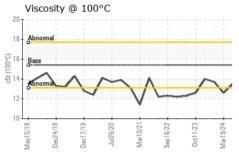
DIAGNOSIS	SAMPLE INFORMAT	TION method	limit/base	current	history1	history2
A Recommendation	Sample Number	Client Info		GFL0117886	GFL0111740	GFL0107160
No corrective action is recommended at this time.						
Resample at the next service interval to monitor.	Sample Date Machine Age hrs	Client Info s Client Info		02 Apr 2024 153620	19 Mar 2024 14252	27 Dec 2023 13693
	•			0	600	0
Wear	0			-		
All component wear rates are normal.	Oil Changed	Client Info		Not Changd	Changed	Changed
Contamination	Sample Status			MARGINAL	ABNORMAL	NORMAL
Light fuel dilution occurring. No other contaminants were detected in the oil.	CONTAMINATION		limit/base	current	history1	history2
Fluid Condition	Water	WC Method	>0.2	NEG	NEG	NEG
The condition of the oil is acceptable for the time in	Glycol	WC Method		NEG	NEG	NEG
service.	WEAR METALS	method	limit/base	current	history1	history2
	lron pp	ASTM D5185(m)	>80	8	28	34
	Chromium pp	ASTM D5185(m)	>5	<1	1	2
	Nickel pp	ASTM D5185(m)	>2	0	<1	<1
	Titanium pp	ASTM D5185(m)		0	0	0
	Silver pp		>3	0	0	0
	Aluminum pp		>30	2	5	9
	Lead pp			0	0	0
	Copper pp			<1	<1	<1
	Tin pp			0	0	0
	Antimony pp			0	0	0
	Vanadium pp	. ,		0	0	0
	Beryllium pp			0	0	0
	Cadmium pp			0	0	0
	ADDITIVES	method	limit/base	current	history1	history2
				8	9	33
				0	9	0
		. ,			60	64
	Molybdenum pp	ASTM D5185(m)	00	55	60	
	Manaanaaa			0	0	
	Manganese pp		0	0	0	0
	Magnesium pp	ASTM D5185(m)	0 1010	896	919	0 837
	Magnesium pp Calcium pp	om ASTM D5185(m) om ASTM D5185(m)	0 1010 1070	896 1015	919 1051	0 837 1141
	MagnesiumppCalciumppPhosphoruspp	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 1010 1070 1150	896 1015 957	919 1051 959	0 837 1141 992
	MagnesiumppCalciumppPhosphorusppZincpp	ASTM D5185(m) om ASTM D5185(m) om ASTM D5185(m) om ASTM D5185(m) om ASTM D5185(m)	0 1010 1070 1150 1270	896 1015 957 1123	919 1051 959 1159	0 837 1141 992 1172
	MagnesiumppCalciumppPhosphorusppZincppSulfurpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060	896 1015 957 1123 2461	919 1051 959 1159 2360	0 837 1141 992 1172 2604
	MagnesiumppCalciumppPhosphorusppZincpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060	896 1015 957 1123	919 1051 959 1159	0 837 1141 992 1172
	MagnesiumppCalciumppPhosphorusppZincppSulfurpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060 Iimit/base	896 1015 957 1123 2461	919 1051 959 1159 2360 <1 history1	0 837 1141 992 1172 2604 <1 history2
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060 Iimit/base	896 1015 957 1123 2461 <1	919 1051 959 1159 2360 <1 history1 7	0 837 1141 992 1172 2604 <1 kistory2 8
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060 limit/base >20	896 1015 957 1123 2461 <1 current	919 1051 959 1159 2360 <1 history1	0 837 1141 992 1172 2604 <1 history2
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060 limit/base >20	896 1015 957 1123 2461 <1 current 3	919 1051 959 1159 2360 <1 history1 7 8 5	0 837 1141 992 1172 2604 <1 kistory2 8
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconppSodiumpp	ASTM D5185(m)	0 1010 1070 1150 1270 2060 imit/base >20	896 1015 957 1123 2461 <1 current 3 3	919 1051 959 1159 2360 <1 history1 7 8	0 837 1141 992 1172 2604 <1 ×1 history2 8 7
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconppSodiumppPotassiumpp	ASTM D5185(m) ASTM D5185(m)	0 1010 1070 1150 1270 2060 imit/base >20	896 1015 957 1123 2461 <1 current 3 3 3 1	919 1051 959 1159 2360 <1 history1 7 8 5	0 837 1141 992 1172 2604 <1 <1 history2 8 7 0
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconppSodiumppPotassiumppFuel%	ASTM D5185(m) ASTM D5185(m)	0 1010 1070 1150 1270 2060 imit/base >20 >20 >5 imit/base	896 1015 957 1123 2461 <1 <1 Current 3 3 3 1 4 ▲ 3.1	919 1051 959 1159 2360 <1 history1 7 8 5 5 5.9	0 837 1141 992 1172 2604 <1 history2 8 7 0 <1.0
	MagnesiumppCalciumppPhosphorusppZincppSulfurppLithiumppCONTAMINANTSSiliconppSodiumppPotassiumppFuel%INFRA-REDSoot %Soot %%	ASTM D5185(m) ASTM D5185(m)	0 1010 1070 1150 1270 2060 imit/base >20 >20 imit/base >20 >3 imit/base >3	896 1015 957 1123 2461 <1 current 3 3 1 ▲ 3.1 current	919 1051 959 1159 2360 <1 history1 7 8 5 5 \$ 5.9 history1	0 837 1141 992 1172 2604 <1 * history2 8 7 0 <1.0 *



OIL ANALYSIS REPORT







FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8	18.3	19.1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

13.5

80

cr

a 40 Ab

20

n

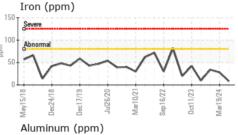
Lead (ppm)

▲ 12.6

13.7

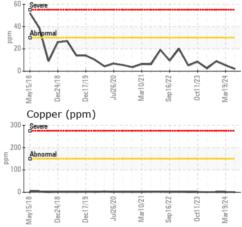
Visc @ 100°C

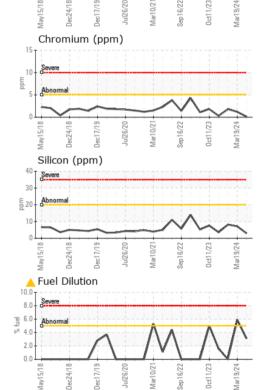
GRAPHS



cSt

ASTM D7279(m) 15.4





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0117886 Received : 04 Apr 2024 Lab Number : 02626520 Tested : 05 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5759652 Diagnosed : 05 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: PercentFuel, Visual) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Der17/19

ul26/20

Mar10/21

Sep16/22

Mar19/24

Viscosity @ 100°C

20 18

16 - B

10

Mav15/18

Dec24/18

cSt (100°C)

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON S CA L4G 0K6 Contact: Mike Havens MHavens@gflenv.com T: F: (905)713-2445

Report Id: GFL217 [WCAMIS] 02626520 (Generated: 04/05/2024 09:54:31) Rev: 1

Submitted By: Scott Ewan Page 2 of 2