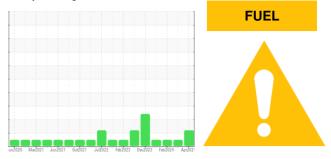


OIL ANALYSIS REPORT

Sample Rating Trend



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

DIAGNOSIS	SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0116567	GFL0111897	GFL0108306
Ve advise that you check the fuel injection system.	Sample Date		Client Info		10 Apr 2024	14 Mar 2024	19 Feb 2024
esample at the next service interval to monitor.			Client Info		17300	17150	17010
ear			Client Info		14117	14107	14108
l component wear rates are normal.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Contamination	Sample Status				ABNORMAL	NORMAL	NORMAL
here is a moderate amount of fuel present in the l.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
el is present in the oil and is lowering the	Glycol		WC Method		NEG	NEG	NEG
viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	WEAR METALS		method	limit/base	current	history1	history2
	lron p	pm	ASTM D5185m	>120	11	8	8
	Chromium p	pm	ASTM D5185m	>20	<1	<1	<1
	Nickel p	pm	ASTM D5185m	>5	2	0	<1
	Titanium p	pm	ASTM D5185m	>2	<1	0	0
	Silver p	pm	ASTM D5185m	>2	0	0	0
	Aluminum p	pm	ASTM D5185m	>20	2	3	3
	Lead p	pm	ASTM D5185m	>40	2	0	<1
	Copper p	pm	ASTM D5185m	>330	3	2	2
	Tin p	pm	ASTM D5185m	>15	2	0	<1
	Vanadium p	pm	ASTM D5185m		<1	0	0
	Cadmium p	pm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	pm	ASTM D5185m	0	3	5	7
			ASTM D5185m	0	0	0	0
			ASTM D5185m		53	59	57
			ASTM D5185m		<1	0	<1
			ASTM D5185m		840	944	947
			ASTM D5185m		1075	1171	1071
				1150	998	1145	1037
	· · · · ·		ASTM D5185m	1270	1123	1270	1286
			ASTM D5185m	2060	3152	3517	3185
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon p	pm	ASTM D5185m	>25	4	4	4
	Sodium p	pm	ASTM D5185m		2	0	<1
	Potassium p	pm	ASTM D5185m	>20	2	2	5
	Fuel %	6	ASTM D3524	>3.0	<u> </u>	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot % %	6	*ASTM D7844	>4	0.2	0.2	0.1
			*ASTM D7624		8.8	7.8	6.2
			*ASTM D7415		19.1	17.7	17.5
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
			*ASTM D7414	>25	15.7	14.2	13.2
				~	10.1	7.0	10.2

Base Number (BN) mg KOH/g ASTM D2896 9.8

Machine Id 422011-407 Component Diesel Engine

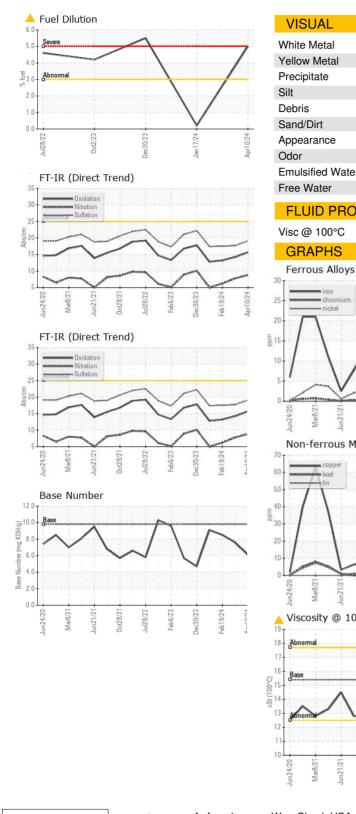
7.6

8.5

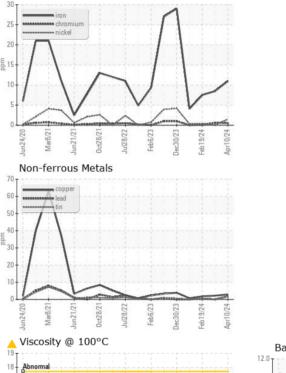
6.1

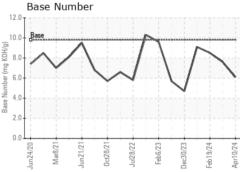


OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	12.7	13.3
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 652 - Fredericksburg Hauling Sample No. : GFL0116567 Received : 12 Apr 2024 10954 Houser Drive Lab Number : 06147937 Tested : 17 Apr 2024 Fredericksburg, VA Unique Number : 10978015 Diagnosed : 17 Apr 2024 - Jonathan Hester US 22408 Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: WILLIAM MILO Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wmilo@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Apr10/24

Dec30/23

Feb 19/24

ah6/23

Report Id: GFL652 [WUSCAR] 06147937 (Generated: 04/17/2024 16:20:29) Rev: 1

Submitted By: TECHNICIAN ACCOUNT