

OIL ANALYSIS REPORT

Sample Rating Trend





Component **Diesel Engine**

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

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0106225	GFL0078608	GFL008206
esample at the next service interval to monitor.	Sample Date		Client Info		11 Jan 2024	31 Oct 2023	16 Aug 2023
/ear	Machine Age	hrs	Client Info		14271	13719	13184
Il component wear rates are normal.	Oil Age	hrs	Client Info		600	600	1600
ontamination	Oil Changed		Client Info		Changed	Changed	Changed
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il. Iuid Condition	CONTAMINA	TION	method	limit/base	current	history1	history
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
e BN result indicates that there is suitable alinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history
	Iron	ppm	ASTM D5185m	>120	5	3	5
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m		0	0	1
	Copper	ppm	ASTM D5185m	>330	1	<1	1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m	0	5	6	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	60	63
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	1024	913	971
	Calcium	ppm	ASTM D5185m	1070	1118	1065	1104
	Phosphorus	ppm	ASTM D5185m	1150	1061	954	971
	Zinc	ppm	ASTM D5185m	1270	1332	1199	1211
	Sulfur	ppm	ASTM D5185m	2060	3055	2694	3308
	CONTAMINA	NTS	method	limit/base	current	history1	history
	Silicon	ppm	ASTM D5185m	>25	4	3	4
	Sodium	ppm	ASTM D5185m		3	5	5
	Potassium	ppm	ASTM D5185m	>20	<1	0	2
					current	biotom	history2
	INFRA-RED		method	limit/base	current	history1	riistory
	INFRA-RED Soot %	%	method *ASTM D7844		0.4	0.5	0.4
				>4			· · · · ·
	Soot %		*ASTM D7844 *ASTM D7624	>4 >20	0.4	0.5	0.4

Abs/.1mm *ASTM D7414 >25

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

Oxidation

15.6

7.9

15.3

7.9

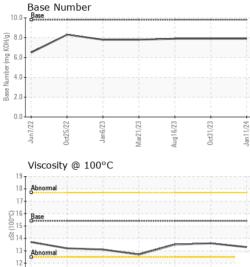
15.0

7.9

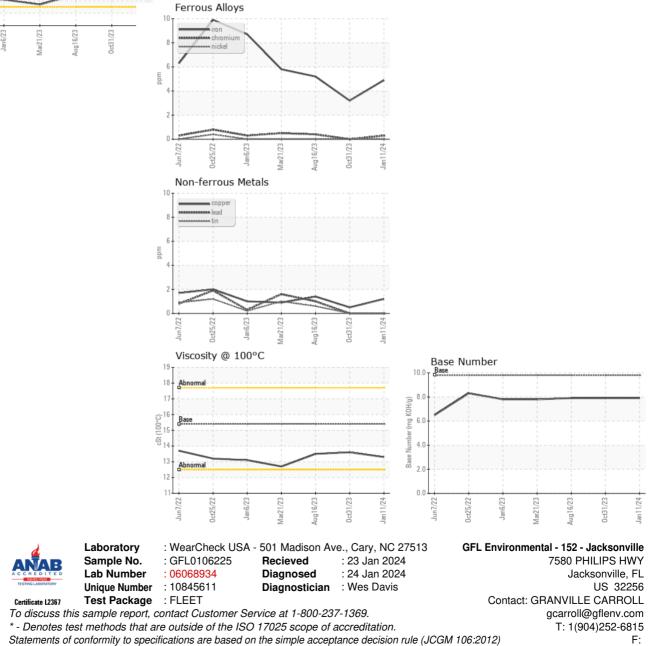


Jun7/22

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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	13.3	13.6	13.5
GRAPHS						



Submitted By: WITH iNDIANA GFL - Chris Smith