

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area ALEXANDER CITY **725028-254503** Component

H()

Diesel Engine Fluid

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

Sodium



DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0089923	GFL0079756	GFL0078463
Resample at the next service interval to monitor.	Sample Date		Client Info		19 Oct 2023	10 Oct 2023	28 Sep 2023
Vear	Machine Age	hrs	Client Info		19130	19068	18994
Il component wear rates are normal.	Oil Age	hrs	Client Info		1388	1326	1252
contamination	Oil Changed		Client Info		N/A	N/A	N/A
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
uid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
ne BN result indicates that there is suitable kalinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	NEG
is suitable for further service.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	13	4	2
	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	2
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	18	12	14
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	61	60
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	842	853	887
	Calcium	ppm	ASTM D5185m	1070	1046	1038	1034
	Phosphorus	ppm	ASTM D5185m	1150	962	934	995
	Zinc	ppm	ASTM D5185m	1270	1148	1090	1178
	Sulfur	ppm	ASTM D5185m	2060	3252	2771	2957
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	4	4
	0 "				-		0

ppm ASTM D5185m

Potassium	ppm	ASTM D5185m	>20	4	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.4	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	17.1	17.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.9	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	7.1	7.8

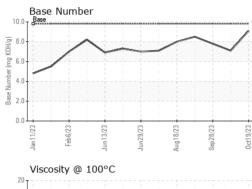
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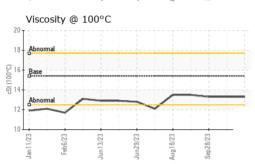
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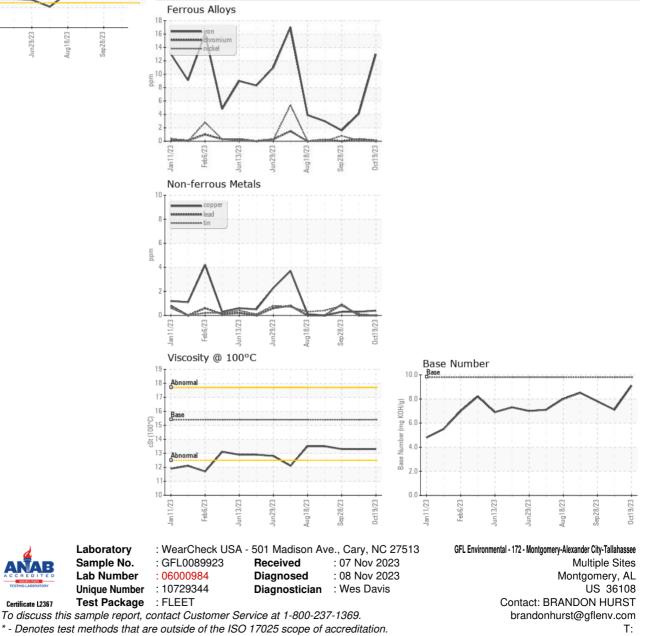


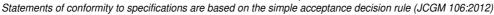
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.3	13.3
GRAPHS						





Certificate L2367

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