

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 420095 - SW4023

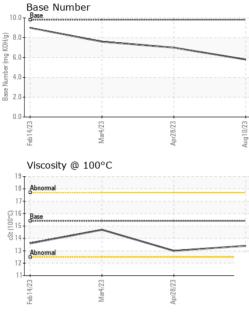
Component **Diesel Engine** Fluid

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

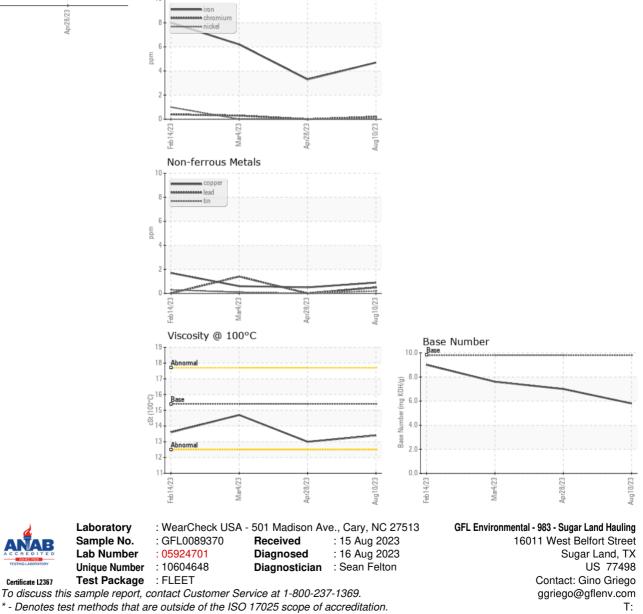
-	`	,	Feb202	23 Mar2023	Apr2023 A	ug2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0089370	GFL0075371	GFL0075347
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Aug 2023	28 Apr 2023	04 Mar 2023
Wear	Machine Age	mls	Client Info		94721	82691	74846
All component wear rates are normal.	Oil Age	mls	Client Info		94721	82691	0
Contamination	Oil Changed		Client Info		Changed	N/A	N/A
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
alkalinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	NEG
oil is suitable for further service.	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	5	3	6
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	2
	Lead	ppm	ASTM D5185m	>40	<1	0	1
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	0	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		41	39	48
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		15	72	152
	Calcium	ppm	ASTM D5185m		2437	2640	2476
	Phosphorus	ppm	ASTM D5185m		1028	1011	1077
	Zinc	ppm	ASTM D5185m		1177	1216	1268
	Sulfur	ppm	ASTM D5185m		3034	3163	3009
	CONTAMINAN		method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	5	6
	Sodium	ppm	ASTM D5185m		0	3	2
	Potassium	ppm	ASTM D5185m	>20	4	5	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	~4	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624		7.9	6.9	9.8
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624		7.9 19.7	16.8	9.8 21.1
	FLUID DEGRAI			limit/base		history1	history2
							,
	Oxidation	Abs/.1mm	*ASTM D7414		11.1	8.8	12.6
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	7.0	7.6



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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	13.4	13.0	14.7
GRAPHS						
Ferrous Alloys						
0 iron						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT

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