

## **OIL ANALYSIS REPORT**

Sample Rating Trend

## NORMAL

Machine Id 424045-402329

Component **Diesel Engine** Fluid

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

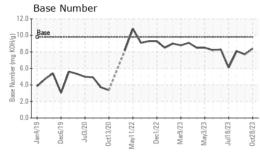


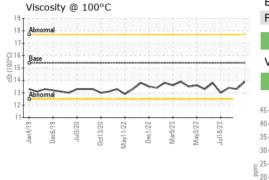
## v2022 Dec2022 Mar2023 Mav2023 Jul2023

GNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
nmendation	Sample Number		Client Info		GFL0095157	GFL0090706	GFL0090639
ple at the next service interval to monitor.	Sample Date		Client Info		28 Oct 2023	29 Sep 2023	17 Aug 2023
	Machine Age	hrs	Client Info		20991	20833	20639
nponent wear rates are normal.	Oil Age	hrs	Client Info		0	600	0
mination	Oil Changed		Client Info		Not Changd	Changed	Not Changd
is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
I result indicates that there is suitable ty remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	NEG
uitable for further service.	WEAR META	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	2	8	5
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		0	2	4
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		0	1	<1
	Tin		ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	>10		0	0
	Cadmium	ppm ppm	ASTM D5185m		0	0	0
	ADDITIVES	ppm	method	limit/base	-	history1	history2
	Boron	ppm	ASTM D5185m		4	0	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	62	63
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	915	958	1035
	Calcium	ppm	ASTM D5185m	1070	1056	1039	1158
	Phosphorus	ppm	ASTM D5185m	1150	999	982	1085
	Zinc	ppm	ASTM D5185m	1270	1234	1241	1364
	Sulfur	ppm	ASTM D5185m	2060	3015	2867	3648
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Sodium	ppm	ASTM D5185m		3	8	3
	Potassium	ppm	ASTM D5185m	>20	0	4	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.2	6.5
	Culfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.3	19.0
	Sulfation						
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
			method *ASTM D7414		current	history1 15.7	history2 14.8

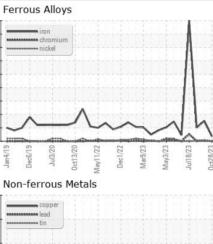


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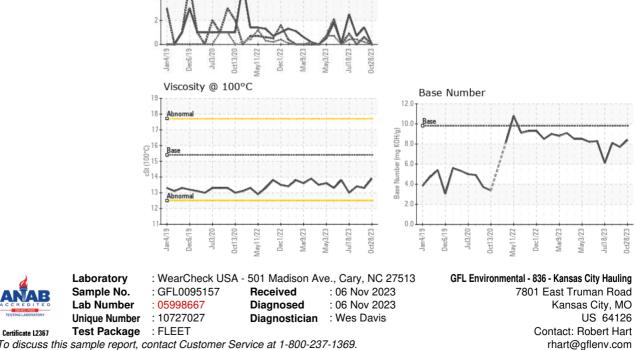
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.9	13.3	13.4
GRAPHS						



41 40

35 30

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To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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