

## Machine Id 929078-205275 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0064645	GFL0064671	GFL0046849
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Date		Client Info		30 Jan 2023	11 Jan 2023	06 Dec 2022
	Machine Age	hrs	Client Info		12173	12031	11731
rating with next sample.	Oil Age	hrs	Client Info		142	300	52
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	6	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	0	2
	Lead	ppm	ASTM D5185m	>40	3	2	4
	Copper	ppm	ASTM D5185m	>330	1	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	1	0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.7	10.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.5	22.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	1	1
The DN regult indicates that there is quitchle alkelinity remaining in	Boron	ppm	ASTM D5185m	0	2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Danum	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	58	64
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		908	842	985
	Calcium	ppm	ASTM D5185m		1096	1063	1150
	Phosphorus	ppm	ASTM D5185m		992	948	1024
	Zinc	ppm	ASTM D5185m		1213	1132	1334
	Sulfur	ppm	ASTM D5185m	2060	2936	2804	3487
	Outstation	Also / doorson	*****	05	404	45.5	10.0

Oxidation

Visc @ 100°C cSt

7.8

19.2

8.5

13.7

15.5

13.8

16.4

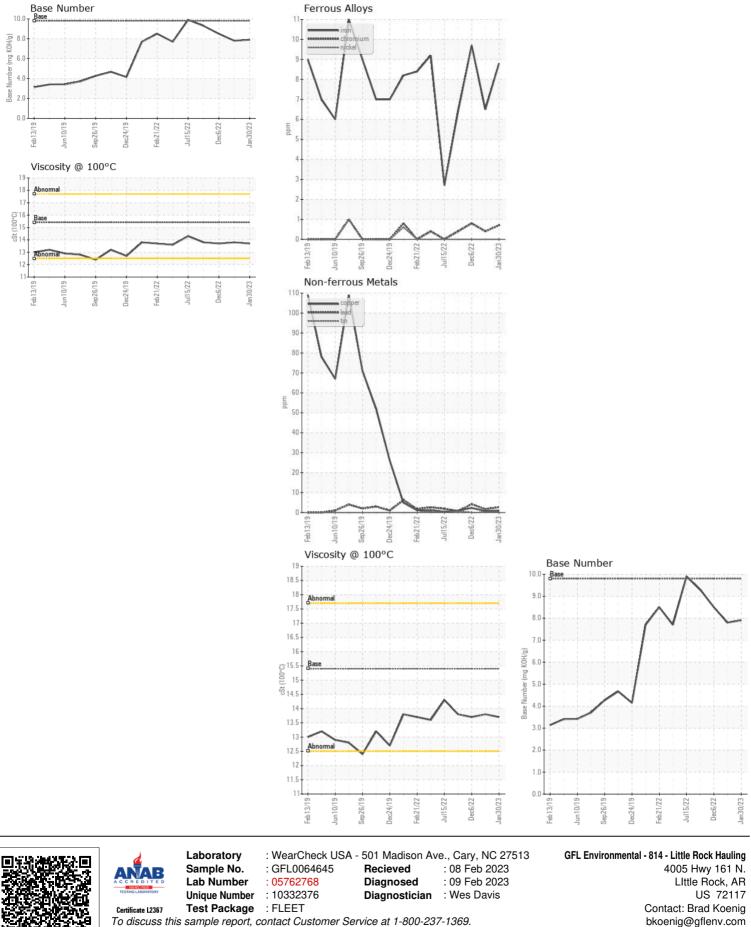
7.9

13.7

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.4

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



To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

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F:

<sup>\* -</sup> Denotes test methods that are outside of the ISO 17025 scope of accreditation.