

OIL ANALYSIS REPORT

Sample Rating Trend



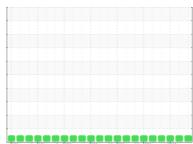


Machine Id 817000

Fluid

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (32 QTS)





C1020 Apr/021 Sep/027 Jap/023 Mar/023 Mar/023 Lap/023

	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0069149	GFL0069198	GFL0069176
erval to monitor.	Sample Date		Client Info		24 Aug 2023	16 Aug 2023	18 Jul 2023
	Machine Age	hrs	Client Info		14352	14303	14163
mal.	Oil Age	hrs	Client Info		49	514	374
	Oil Changed		Client Info		Changed	Changed	Not Changd
mination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
s suitable ondition of the	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	15	13	8
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	4	4
	Lead	ppm	ASTM D5185m	>40	0	2	0
	Copper	ppm	ASTM D5185m	>330	58	2	<1
	Tin	ppm	ASTM D5185m		1	<1	0
	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	5	4	6
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	64	67	66
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	935	922	997
	Calcium	ppm	ASTM D5185m	1070	1139	1088	1158
	Phosphorus	ppm	ASTM D5185m	1150	1024	960	1022
	Zinc	ppm	ASTM D5185m	1270	1291	1215	1305
	Sulfur	ppm	ASTM D5185m		3457	2941	3457
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	24	8
	Sodium	ppm	ASTM D5185m		5	3	3
	Potassium	ppm	ASTM D5185m	>20	26	1	<1
			method	limit/base	current	history1	history2
	INFRA-RED						
	INFRA-RED Soot %	%	*ASTM D7844	>4	0.4	0.6	0.5
		% Abs/cm	*ASTM D7844 *ASTM D7624		0.4 7.7	0.6 7.6	0.5 7.3
	Soot %			>20			
	Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.7	7.6	7.3
	Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base	7.7 19.4	7.6 19.5	7.3 19.7

Resample at the next service inte

Wear

All component wear rates are not

Contamination

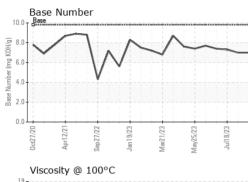
There is no indication of any cont oil.

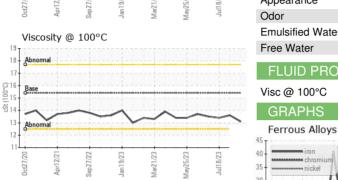
Fluid Condition

The BN result indicates that there alkalinity remaining in the oil. The oil is suitable for further service.

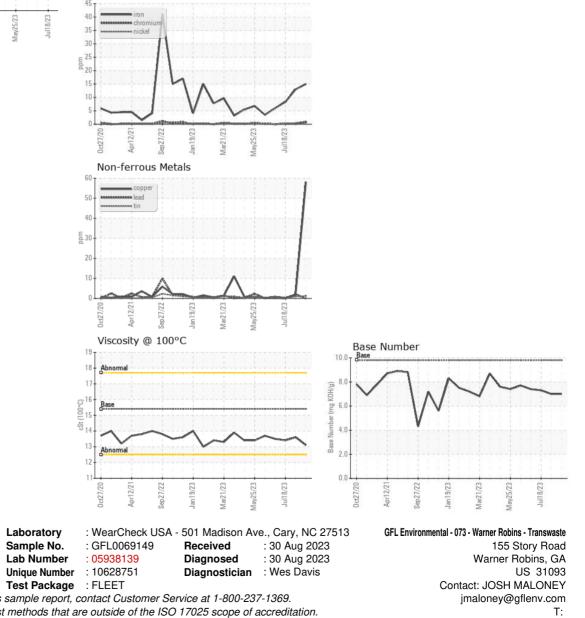


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.1	13.6	13.4
GRAPHS						



Certificate L2367 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)

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