

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 429032-402478

Component **Diesel Engine** Fluid

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

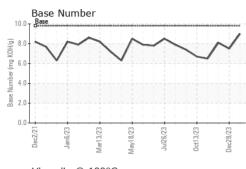
w227 Jun222 Mar/22 Mar/22 Mar/22 Ju227 Ju227 0.027 0.027

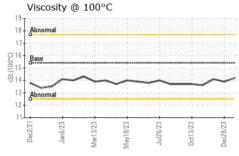


	·		ec2021 Ja	in2023 Mar2023 M	ay2023 Jul2023 Oct2023	Dec2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0110896	GFL0090978	GFL0103042
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Jan 2024	28 Dec 2023	28 Nov 2023
Wear	Machine Age	hrs	Client Info		12922	12787	12628
All component wear rates are normal.	Oil Age	hrs	Client Info		0	159	128
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
bil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
luid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Water		WC Method		NEG	NEG	NEG
Ikalinity remaining in the oil. The condition of the il is suitable for further service.	Glycol		WC Method	20.L	NEG	NEG	NEG
	-	0		limit/booo			
	WEAR METAL		method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		0	3	<1
	Chromium	ppm	ASTM D5185m		<1	0	0
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	1	<1	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	0	1	0
	Tin	ppm	ASTM D5185m	>15	0	<1	<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	13	1	2
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	59	58
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	1010	972	1000	932
	Calcium	ppm	ASTM D5185m	1070	1056	1063	986
	Phosphorus	ppm	ASTM D5185m	1150	1027	1065	1101
	Zinc	ppm	ASTM D5185m	1270	1261	1326	1301
	Sulfur	ppm	ASTM D5185m		3050	3206	3264
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	2	3	3
	Sodium	ppm	ASTM D5185m		0	2	2
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.8	5.5
	Sulfation	Abs/.1mm			18.0	18.5	17.8
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.5	13.9
	Base Number (BN)				9.0	7.5	8.1

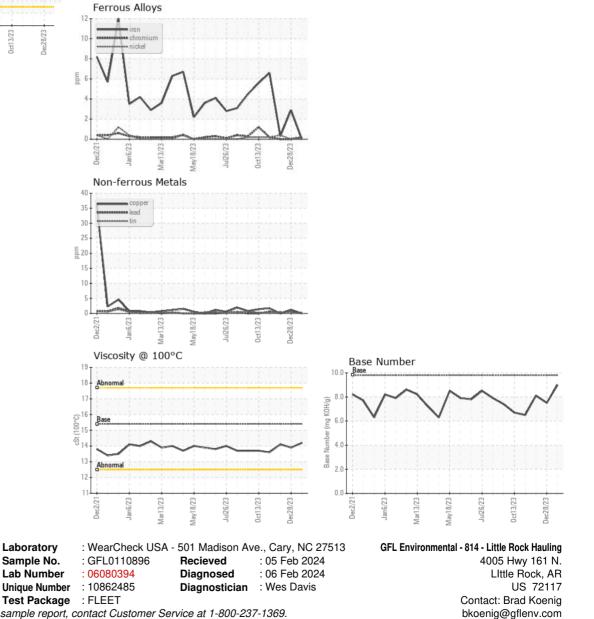


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.2	13.9	14.1
GRAPHS						



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)

Certificate L2367

Submitted By: Nicole Walls Page 2 of 2

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