

## **OIL ANALYSIS REPORT**

Sample Rating Trend

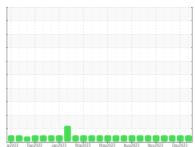
NORMAL



## MONTGOMERY **MACK 929110**

Component **Diesel Engine** 

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

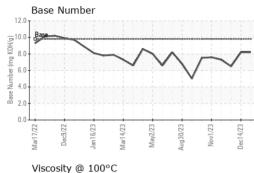


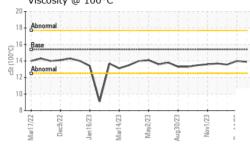


DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0087969	GFL0091301	GFL0091292
esample at the next service interval to monitor.	Sample Date		Client Info		29 Dec 2023	14 Dec 2023	27 Nov 2023
ear	Machine Age	hrs	Client Info		12110	11994	11865
component wear rates are normal.	Oil Age	hrs	Client Info		12110	11994	11865
ontamination	Oil Changed		Client Info		Not Changd	Not Changd	Changed
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	8	5	12
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver		ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	3
		ppm	ASTM D5185m				
	Lead	ppm			0	1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		1	4	4
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	59	59
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	1010	993	948	935
	Calcium	ppm	ASTM D5185m	1070	1081	1002	1034
	Phosphorus	ppm	ASTM D5185m	1150	1050	933	1028
	Zinc	ppm	ASTM D5185m	1270	1264	1220	1261
	Sulfur	ppm	ASTM D5185m	2060	3374	3049	2834
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	5	7
	Sodium	ppm	ASTM D5185m		3	3	5
	Potassium	ppm	ASTM D5185m	>20	1	<1	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	5.9	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.2	19.6
	FLUID DEGRAI	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Oxidation		*ASTM D7414	>25	15.0	14.3	16.1
	Base Number (BN)				8.2	8.2	6.5
	Dase Multiber (BN)	ing KOH/g	AG HWI D2030	9.0	0.2	0.2	0.5

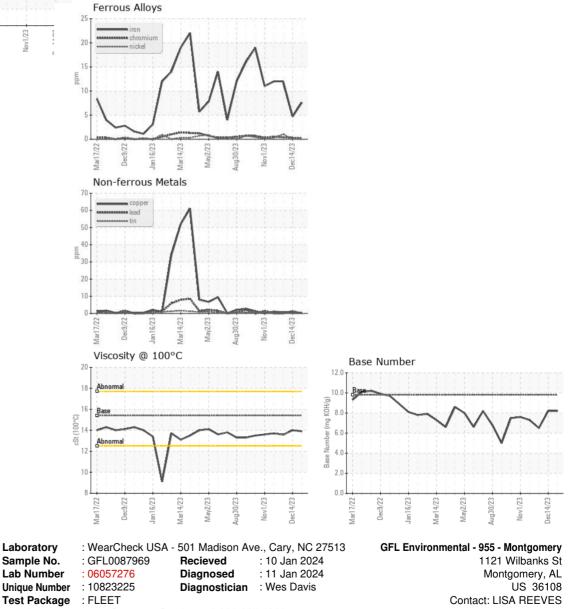


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.0	13.57
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