

## **OIL ANALYSIS REPORT**

Sample Rating Trend

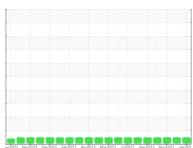
NORMAL

## MONTGOMERY **MACK 420045**



Component Diesel Engine Fluid

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



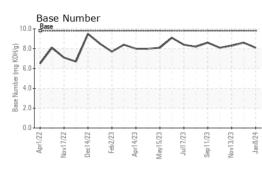


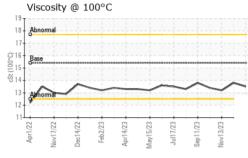
## 1/2/27 Νοχ/2/27 [Dec/2/27] Εθέ/2/27 Δη/2/23 [Max/2/23] [Max/2/23] [Max/2/23] [Max/2/23] [Max/2/23]

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0081881	GFL0091295	GFL0087996
esample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024	06 Dec 2023	13 Nov 2023
	Machine Age	hrs	Client Info		8903	8712	8570
<b>ear</b> I component wear rates are normal.	Oil Age	hrs	Client Info		333	142	0
•	Oil Changed	1113	Client Info		Not Changd	Not Changd	Changed
ontamination	Sample Status				NORMAL	NORMAL	NORMAL
nere is no indication of any contamination in the .	•			line it /le en e			
uid Condition	CONTAMINAT	ION	method	limit/base		history1	history2
The BN result indicates that there is suitable	Fuel		WC Method		<1.0	<1.0	<1.0
alinity remaining in the oil. The condition of the	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	5	3	3
	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	2
	Tin	ppm	ASTM D5185m		0	0	<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	1	4	1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m		60	58	53
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		970	961	901
	Calcium	ppm	ASTM D5185m		1050	904	959
	Phosphorus	ppm	ASTM D5185m		1017	965	964
	Zinc	ppm	ASTM D5185m		1231	1172	1161
	Sulfur	ppm	ASTM D5185m		3249	3138	2791
	CONTAMINAN	JTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m		4	4	4
	Sodium	ppm	ASTM D5185m	- 10	2	1	3
	Potassium	ppm	ASTM D5185m	>20	6	3	11
	INFRA-RED	1- 1-	method	limit/base		history1	history2
	Soot %	%	*ASTM D7844		0.3	0.2	0.3
	Nitration	Abs/cm				5.4	6.8
	Sulfation		*ASTM D7624		6.4 18.3		18.8
		Abs/.1mm				17.7	
	FLUID DEGRA	DATION	method				history2
	I LOID DEGNA						
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		14.0	13.8 8.6	14.4 8.3

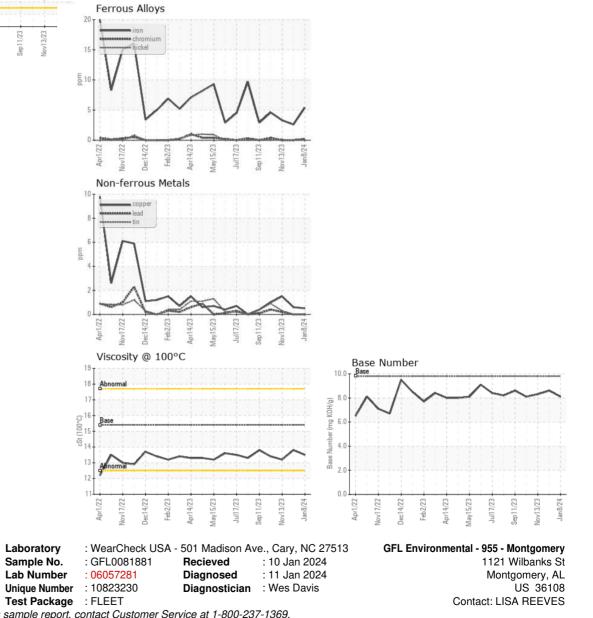


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.5	13.8	13.2
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