

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## MONTGOMERY **MACK 420042**

Component Diesel Engine Fluid

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

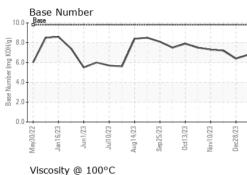
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0087962	GFL0087964	GFL0091256
esample at the next service interval to monitor.	Sample Date		Client Info		28 Dec 2023	28 Dec 2023	30 Nov 2023
ear	Machine Age	hrs	Client Info		8727	8727	8596
component wear rates are normal.	Oil Age	hrs	Client Info		8727	1093	962
ontamination	Oil Changed		Client Info		Changed	Changed	Not Changd
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
uid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
e BN result indicates that there is suitable 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 META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	24	23	20
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	1	1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	1	1
	Lead	ppm	ASTM D5185m		2	2	2
	Copper	ppm	ASTM D5185m	>330	48	47	46
	Tin	ppm	ASTM D5185m		2	1	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	3	3	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	61	63
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	980	959	996
	Calcium	ppm	ASTM D5185m	1070	1140	1121	1159
	Phosphorus	ppm	ASTM D5185m	1150	947	947	1035
	Zinc	ppm	ASTM D5185m	1270	1323	1285	1310
	Sulfur	ppm	ASTM D5185m	2060	2472	2456	2631
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	9	8	9
	Sodium	ppm	ASTM D5185m		4	4	4
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.6	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.7	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.1	19.9
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.3	15.7
	Base Number (BN)				6.8	6.4	7.2

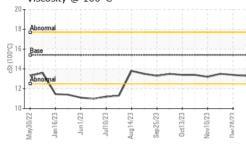
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Report Id: GFL955 [WUSCAR] 06048212 (Generated: 01/02/2024 12:12:09) Rev: 1



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VISUAL		method				
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	13.3	13.4	13.5
GRAPHS						
Ferrous Alloys						
10	1/					
10 5 0 22005/ew Non-ferrous Metal	Aug14/23 /	Oct13/23	Dec28/23			
5 0 2700 Erzy um CZODE Ferrous Metals 200 50 50		0ct13/23	Dec26/23			
5 0 ECIDINF ECIDINF Non-ferrous Metal: 250 250 250 250 250 250 250 250 250 250		Oct13/23 Oct13/23 Oct13/23 Nov10/23 Nov10/23 Nov10/23	Dec28/23	Base Number		

Jan 16/23

Jun1/23 Jul10/23

May30/22

: 29 Dec 2023



Lab Number :06048212 Diagnosed : 02 Jan 2024 Unique Number : 10808820 Diagnostician : Wes Davis Test Package : FLEET Contact: LISA REEVES 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved

May30/22

Laboratory

Sample No.

Jan 16/23

: GFL0087962

Jun1/23

Jul10/23 Aug14/23 Sep25/23 0ct13/23 Nov10/23 Dec28/23 Dec28/23

1121 Wilbanks St

Montgomery, AL

US 36108

Sep25/23 0ct13/23 Vov10/23

GFL Environmental - 955 - Montgomery

Aug14/23

T: F: