WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

MONTGOMERY

MACK 923058

Component
Diesel Engine

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

	15W40 ((
RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0080681	GFL0081849	GFL007510
	Sample Date	le ore	Client Info		20 May 2024	25 Jan 2024	10 Mar 202
	Machine Age	hrs	Client Info		3862	3662	2876
	Oil Age	hrs	Client Info		3862	3662	0
	Filter Age	hrs	Client Info		0 Net Ohemud	O Changed	0 Changed
	Oil Changed		Client Info		Not Changd N/A	Changed	Changed
	Filter Changed Sample Status		Client Info		N/A NORMAL	Changed NORMAL	Changed NORMAL
······					INUNIVIAL	NORIVIAL	NORIVIAL
WEAR	Iron	ppm	ASTM D5185m	>120	10	23	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	1
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ACTM DE10Em	. 25	_	7	6
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		5 <1	7 2	6
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~1	0.4	1.1	0.4
	Nitration	Abs/cm	*ASTM D7624		6.5	9.3	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		17.5	19.9	18.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		11	4	4
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		60	57	53
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		947	926	828
	Calcium	ppm	ASTM D5185m		1029	977	962
	Phosphorus	ppm	ASTM D5185m		1041	997	843
	Zinc	ppm	ASTM D5185m		1233	1213	1060
	Sulfur	ppm	ASTM D5185m		3579	2920	2571
	Oxidation	Abs/.1mm	*ASTM D7414		13.4	14.5	14.5
	Base Number (BN)		ASTM D2896		8.8	7.1	7.0
	Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.1	12.7







Certificate L2367

Laboratory Sample No.

: GFL0080681 Lab Number : 06187189 Unique Number : 11043941 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 May 2024 : 22 May 2024

Tested Diagnosed : 22 May 2024 - Wes Davis

GFL Environmental - 955 - Montgomery

1121 Wilbanks St Montgomery, AL US 36108 Contact: LISA REEVES

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)

T:

F: