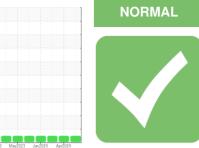


OIL ANALYSIS REPORT

Sample Rating Trend



Area MONTGOMERY **MACK 926066**

1

Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0088608	GFL0089944	GFL0083554
Resample at the next service interval to monitor.	Sample Date		Client Info		20 May 2024	11 Apr 2024	03 Apr 2024
Wear	Machine Age	hrs	Client Info		11849	11682	11652
All component wear rates are normal.	Oil Age	hrs	Client Info		865	698	668
Contamination	Oil Changed		Client Info		Not Changd	N/A	Not Changd
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
alkalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
oil 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	32	23	27
	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	18	8	7
	Lead	ppm	ASTM D5185m	>40	2	2	<1
	Copper	ppm	ASTM D5185m		6	4	3
	Tin	ppm	ASTM D5185m	>15	2	<1	0
	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	0	4	0	1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m		63	60	63
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m		929	937	1037
	Calcium	ppm	ASTM D5185m	1070	1049	1071	1169
	Phosphorus	ppm	ASTM D5185m	1150	994	955	1051
	Zinc	ppm	ASTM D5185m		1201	1196	1328
	Sulfur	ppm	ASTM D5185m		2874	3081	3446
	CONTAMINAN	TS	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	14	10	9
	Sodium	ppm	ASTM D5185m		25	18	17
	Potassium	ppm	ASTM D5185m	>20	4	11	3
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	*ASTM D7844	>4	1.3	1.1	1.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.3	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.2	21.0
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	16.0	16.4
	B M M M	1/0111	LOTH DOGES	0.0		0.1	0.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

6.3

6.4

6.0

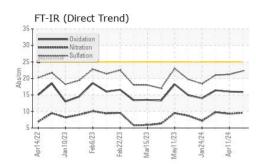


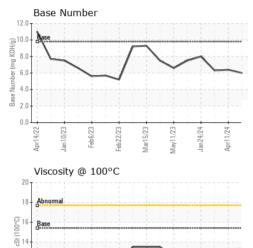
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10 Apr14/22

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OIL ANALYSIS REPORT





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May11/23

Jan24/24

Apr11/24 .

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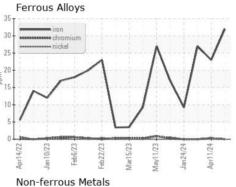
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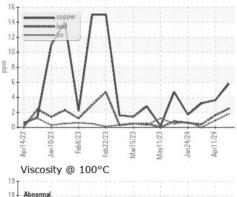
Jan 10/23

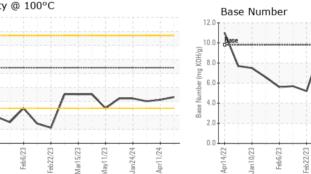
cSt (100°C)

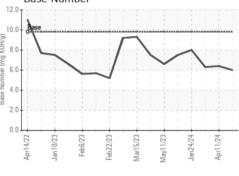
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.3	13.1	13.0

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. 1121 Wilbanks St : GFL0088608 Received : 21 May 2024 Lab Number : 06187178 Tested : 23 May 2024 Montgomery, AL US 36108 Unique Number : 11043930 Diagnosed : 23 May 2024 - Sean Felton Test Package : FLEET Contact: LISA REEVES Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
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Submitted By: Lisa Reeves Page 2 of 2

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