

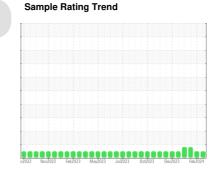
OIL ANALYSIS REPORT



MONTGOMERY Area **MACK 928112**

Component **Diesel Engine**

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







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

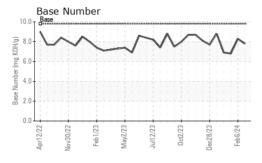
Fluid Condition

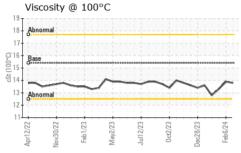
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	IVIATION		— iiiiii/base			•
Sample Number		Client Info		GFL0088647	GFL0088643	GFL0081864
Sample Date		Client Info		27 Feb 2024	06 Feb 2024	22 Jan 2024
Machine Age	hrs	Client Info		14440	17291	14166
Oil Age	hrs	Client Info		14440	3125	1234
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	6	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	0	<1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	8	<u>^</u> 24
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm		>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES	ррпп	method	limit/base	current	history1	history2
Boron	ppm		0	5	7	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	66	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	887	1023	928
Calcium	ppm	ASTM D5185m	1070	932	1101	1021
Phosphorus	ppm	ASTM D5185m	1150	950	1039	949
Zinc	ppm	ASTM D5185m	1270	1206	1320	1190
Sulfur	ppm	ASTM D5185m	2060	2834	3132	2965
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	7
Sodium	ppm	ASTM D5185m		4	0	8
Potassium	ppm	ASTM D5185m	>20	11	10	19
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.7	18.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.3	6.8
(DIV)	9		3.0		0.0	0.0



OIL ANALYSIS REPORT

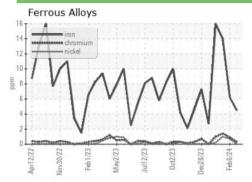


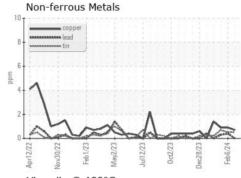


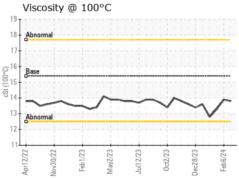
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

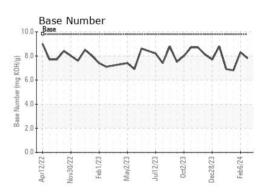
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0088647 Lab Number : 06105929 Unique Number: 10909426 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested**

: 04 Mar 2024 Diagnosed : 04 Mar 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: