

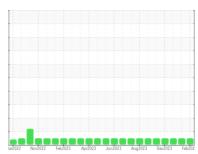
OIL ANALYSIS REPORT



MONTGOMERY **MACK 420041**

Diesel Engine

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



Sample Rating Trend



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

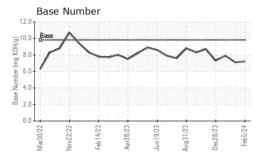
Fluid Condition

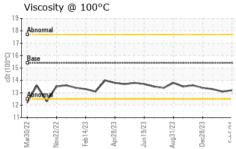
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OAMBLE WEST	MATION	lar2022 Nov	11 1-1		123 Feb202		
SAMPLE INFORI	VIATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088672	GFL0081868	GFL0081883	
Sample Date		Client Info		05 Feb 2024	31 Jan 2024	08 Jan 2024	
Machine Age	hrs	Client Info		9297	9267	9122	
Oil Age	hrs	Client Info		981	951	806	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
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	6	10	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	2	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	4	2	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	2	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	2	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	66	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	928	1014	979	
Calcium	ppm	ASTM D5185m	1070	938	988	1080	
Phosphorus	ppm	ASTM D5185m	1150	990	892	993	
Zinc	ppm	ASTM D5185m	1270	1210	1286	1223	
Sulfur	ppm	ASTM D5185m	2060	2758	2569	3110	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	4	7	4	
Sodium	ppm	ASTM D5185m		2	0	2	
Potassium	ppm	ASTM D5185m	>20	10	13	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.3	18.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.0	14.5	
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.1	7.9	
Dage (DIV)	ing Noring	, 10 TW D2000	0.0	1.6	7 . 1	1.0	



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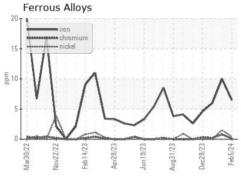


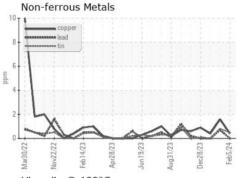


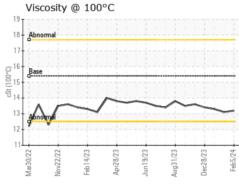
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

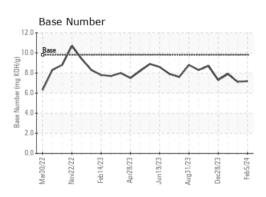
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.1	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0088672 Lab Number : 06083013 Unique Number : 10870458 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Feb 2024

Tested : 08 Feb 2024 Diagnosed : 08 Feb 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)

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F: