

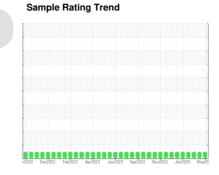
OIL ANALYSIS REPORT



MONTGOMERY MACK 920015-192536

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

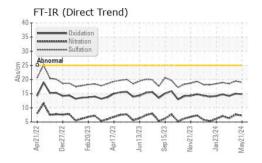
Fluid Condition

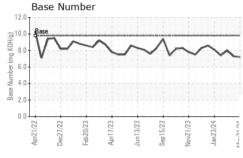
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

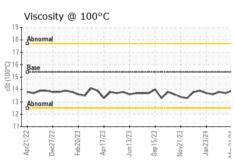
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088007	GFL0088014	GFL0083557
Sample Date		Client Info		21 May 2024	08 May 2024	04 Apr 2024
Machine Age	hrs	Client Info		13483	8456	13110
Oil Age	hrs	Client Info		1134	0	761
Oil Changed		Client Info		Changed	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		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	13	14	3
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		4	5	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m		<1	1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	77	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	965	1211	925
Calcium	ppm	ASTM D5185m	1070	1061	1331	1047
Phosphorus	ppm	ASTM D5185m	1150	1007	1281	978
Zinc	ppm	ASTM D5185m	1270	1239	1624	1169
Sulfur	ppm	ASTM D5185m	2060	3057	3752	3082
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	3
Sodium	ppm	ASTM D5185m		4	6	2
Potassium	ppm	ASTM D5185m	>20	0	4	0
INFRA-RED		method	limit/base	current	history1	history2
INFNA-NED						
Soot %	%	*ASTM D7844	>4	0.4	0.4	0.2
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20	0.4 7.3	0.4 7.6	0.2 6.3
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	7.3	7.6	6.3
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	7.3 19.0	7.6 19.4 history1	6.3 18.5
Soot % Nitration Sulfation FLUID DEGRAI	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	7.3 19.0 current	7.6 19.4	6.3 18.5 history2



OIL ANALYSIS REPORT



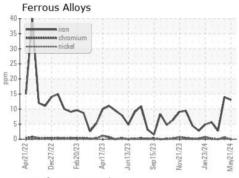


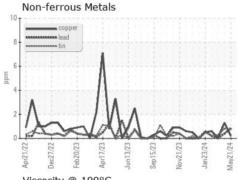


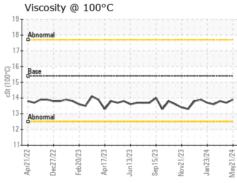
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

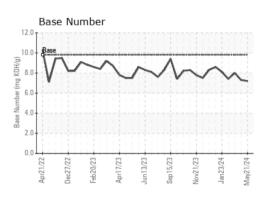
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.8

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0088007 Lab Number : 06187181 Unique Number : 11043933 Test Package : FLEET

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

: 23 May 2024 Diagnosed

: 23 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)

Report Id: GFL955 [WUSCAR] 06187181 (Generated: 05/23/2024 01:25:19) Rev: 1

Submitted By: Lisa Reeves

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