

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area MONTGOMERY MACK 920107



Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Component Diesel Engine

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



SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083550	GFL0115611	GFL0115580
Sample Date		Client Info		03 Apr 2024	27 Mar 2024	12 Mar 2024
Machine Age	hrs	Client Info		8910	8846	8743
Oil Age	hrs	Client Info		436	372	269
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	, 0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	51	45	28
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1041	1022	920
Calcium	ppm	ASTM D5185m	1070	1138	1129	1013
Phosphorus	ppm	ASTM D5185m	1150	1071	1055	1010
Zinc	ppm	ASTM D5185m	1270	1337	1295	1219
Sulfur	ppm	ASTM D5185m	2060	3601	3507	3266
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
Sodium	ppm	ASTM D5185m		5	4	3
Potassium	ppm	ASTM D5185m	>20	1	0	<1
		method	limit/base	current	history1	history2
INFRA-RED						
INFRA-RED Soot %	%	*ASTM D7844	>4	1.3	1.2	1.1
	% Abs/cm	*ASTM D7844 *ASTM D7624		1.3 11.7	1.2 11.3	1.1 10.3
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	11.7	11.3	10.3

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

6.7

5.3

4.8

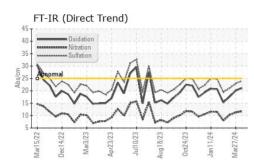


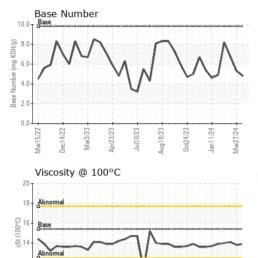
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Mar15/22 Dec14/22 Mar3/23

pr23/23

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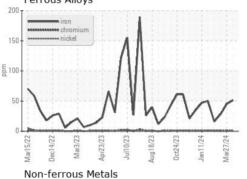
Oct24/23 Jan11/24 Mar27/24

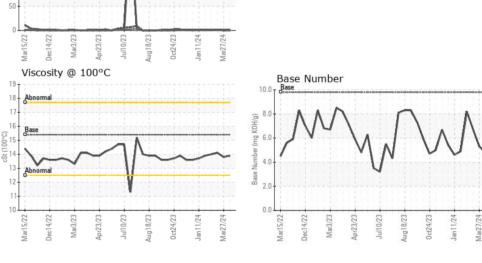
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.9	13.8	14.1
GRAPHS						

Ferrous Alloys

250





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. : GFL0083550 Received : 04 Apr 2024 1121 Wilbanks St Lab Number : 06138329 Tested : 05 Apr 2024 Montgomery, AL Unique Number : 10963137 Diagnosed : 05 Apr 2024 - Wes Davis Test Package : FLEET Contact: LISA REEVES Certificate 12367 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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