

OIL ANALYSIS REPORT

Sample Rating Trend



Area MONTGOMERY MACK 420045



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.

Diesel Engine

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

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083565	GFL0115603	GFL008865
Sample Date		Client Info		08 Apr 2024	27 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		9416	9296	9165
Dil Age	hrs	Client Info		251	131	595
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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 METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	4	2	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
_ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Гin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Volybdenum	ppm	ASTM D5185m	60	57	55	63
Vanganese	ppm	ASTM D5185m	0	<1	0	<1
Vagnesium	ppm	ASTM D5185m	1010	918	920	1000
Calcium	ppm	ASTM D5185m	1070	1000	1028	1085
Phosphorus	ppm	ASTM D5185m	1150	989	1032	1040
Zinc	ppm	ASTM D5185m	1270	1164	1225	1302
Sulfur	ppm	ASTM D5185m	2060	3228	3466	3266
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	5
Sodium	ppm	ASTM D5185m		1	2	3
Potassium	ppm	ASTM D5185m	>20	5	6	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.5	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.7	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.9	14.4



DIAGNOSIS Recommendation

Contamination

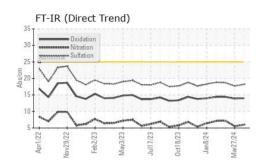
Fluid Condition

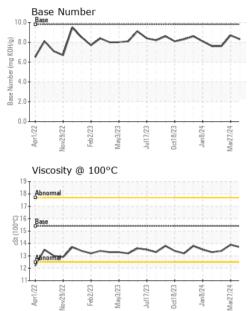
Wear

oil.



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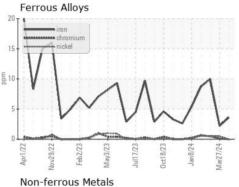


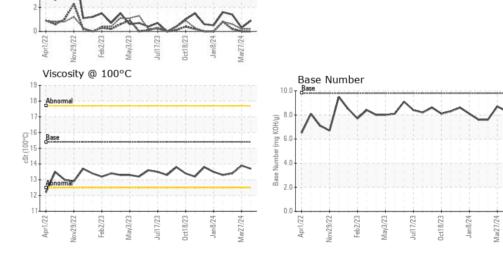
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.7	13.9	13.4

GRAPHS

lead

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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. : GFL0083565 Received : 10 Apr 2024 1121 Wilbanks St Lab Number : 06144925 Tested : 11 Apr 2024 Montgomery, AL US 36108 Unique Number : 10969733 Diagnosed : 11 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. T: * - 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)

Submitted By: Lisa Reeves Page 2 of 2

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