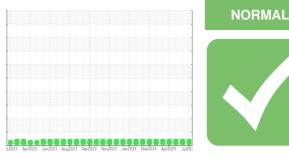


OIL ANALYSIS REPORT



Sample Rating Trend



Area (3A0C9HX) MONTGOMERY

MACK 913101 Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127767	GFL0118417	GFL0088003
Sample Date		Client Info		03 Jul 2024	05 Jun 2024	15 May 2024
Machine Age	hrs	Client Info		3547	3286	3164
Oil Age	hrs	Client Info		515	254	132
Oil Changed		Client Info		Not Changd	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	16	11	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	1	2	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	3	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	72	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1043	1061	902
Calcium	ppm	ASTM D5185m	1070	1183	1174	970
Phosphorus	ppm	ASTM D5185m	1150	1093	1286	1043
Zinc	ppm	ASTM D5185m	1270	1362	1419	1184
Sulfur	ppm	ASTM D5185m	2060	3470	3697	3211
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	4
Sodium	ppm	ASTM D5185m		6	3	3
Potassium	ppm	ASTM D5185m	>20	2	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.8	8.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	20.5	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
A 1 I 1	Abs/.1mm	*ASTM D7414	>25	20.2	16.3	16.5
Oxidation	ADS/.IIIIII	ASTIVI D7414	>20	20.2	10.5	10.5

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

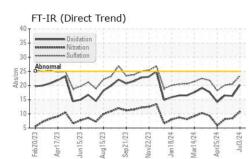
There is no indication of any contamination in the oil.

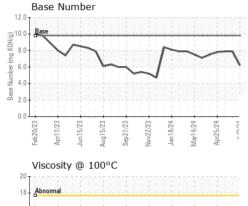
Fluid Condition

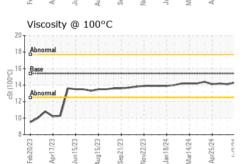
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT

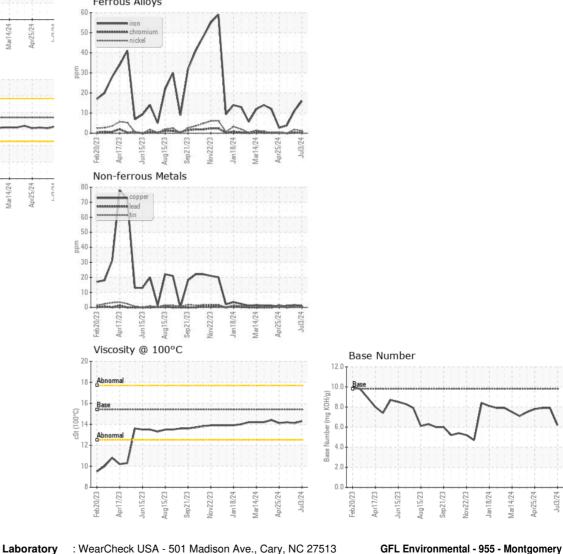






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.1	14.2
GRAPHS						

Ferrous Alloys



: 09 Jul 2024



Lab Number : 06231289 Tested : 10 Jul 2024 Montgomery, AL US 36108 Unique Number : 11114782 Diagnosed : 10 Jul 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)

Received

Sample No.

: GFL0127767

Submitted By: Lisa Goldman Page 2 of 2

Apr25/24 lul3/24

T:

F:

1121 Wilbanks St