

OIL ANALYSIS REPORT

Sample Rating Trend

100 i 0 i



NORMAL



Area MONTGOMERY Machine Id MACK 929110

Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088005	GFL0118443	GFL008356
Sample Date		Client Info		20 May 2024	30 Apr 2024	11 Apr 2024
Machine Age	hrs	Client Info		13197	13044	12894
Oil Age	hrs	Client Info		13197	13044	12894
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	<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	13	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	0	4	3
Tin	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	2	2	8
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	62	63	59
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	949	963	949
Calcium	ppm	ASTM D5185m	1070	1010	1125	1083
Phosphorus	ppm	ASTM D5185m	1150	1067	1029	1059
Zinc	ppm	ASTM D5185m	1270	1210	1276	1279
Sulfur	ppm	ASTM D5185m	2060	3342	3019	3334
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	6
Sodium	ppm	ASTM D5185m		3	6	7
Potassium	ppm	ASTM D5185m	>20	0	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.4	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	20.8	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	17.3	16.1

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

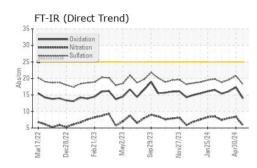
There is no indication of any contamination in the oil.

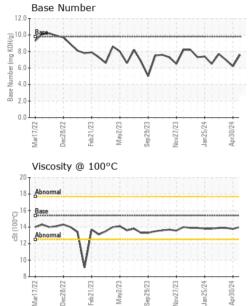
Fluid Condition

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

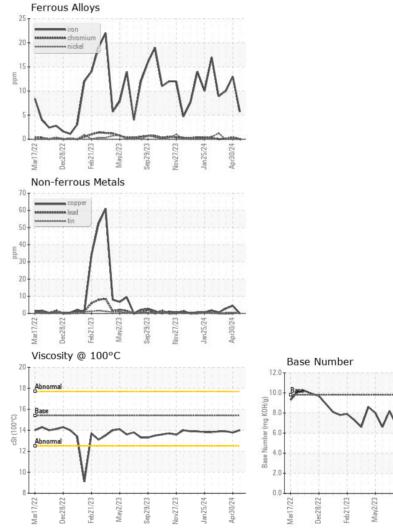


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.0	13.78	13.9
GRAPHS						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. 1121 Wilbanks St : GFL0088005 Received : 21 May 2024 Lab Number : 06187182 Tested : 23 May 2024 Montgomery, AL US 36108 Unique Number : 11043934 Diagnosed : 23 May 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. F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Sep 29/23

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