

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



MONTGOMERY Machine Id 927047-162510

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

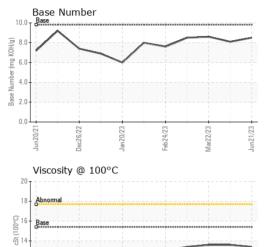
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			DOLLAL GUILDES			
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0045427	GFL0064608	GFL0071658
Sample Date		Client Info		21 Jun 2023	11 May 2023	22 Mar 2023
Machine Age	hrs	Client Info		16639	16361	15959
Oil Age	hrs	Client Info		16639	16361	15959
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>120	9	32	25
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	<u>^</u> 70	▲ 83
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	12	10	35
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	920	903	805
Calcium	ppm	ASTM D5185m	1070	1071	1097	1031
Phosphorus	ppm	ASTM D5185m	1150	974	940	904
Zinc	ppm	ASTM D5185m	1270	1215	1198	1097
Sulfur	ppm	ASTM D5185m	2060	3472	3057	2782
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	11	24	15
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	3	<1	1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	0.5	0.9	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.0	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.8	19.3
FLUID DEGRADATION method limit/base current history 1 history 2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	16.0	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.1	8.6



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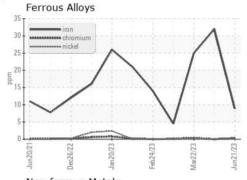
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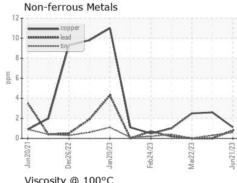


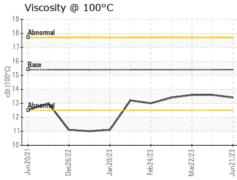
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

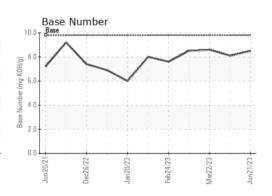
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	13.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0045427 : 05885386

Received Diagnosed : 10535869

: 28 Jun 2023 : 30 Jun 2023

Diagnostician : Wes Davis

GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com T:

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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