

OIL ANALYSIS REPORT

Sample Rating Trend







427076-402408

Component **Diesel Engine**

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

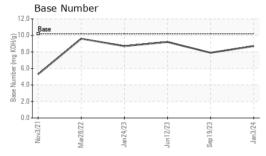
Fluid Condition

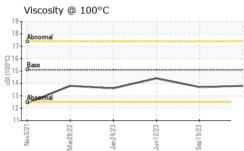
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	′	Nov2021	Mar2022 Jan2023	Jun2023 Sep2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092590	GFL0092552	GFL0081556
Sample Date		Client Info		03 Jan 2024	19 Sep 2023	12 Jun 2023
Machine Age	hrs	Client Info		31635	31631	31585
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Oil Added
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	11	12	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	<1
Lead	ppm	ASTM D5185m	>40	3	3	0
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m		<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	3	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	64	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	888	978	965
Calcium	ppm	ASTM D5185m	1510	1106	1215	1276
Phosphorus	ppm	ASTM D5185m	780	1033	1085	1088
Zinc	ppm	ASTM D5185m	870	1267	1349	1307
Sulfur	ppm	ASTM D5185m	2040	2974	3811	3914
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		4	5	<1
Potassium	ppm	ASTM D5185m	>20	7	8	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.1	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.0	18.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.6	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.7	7.9	9.2
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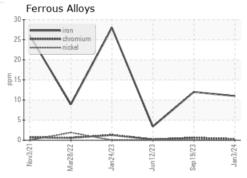


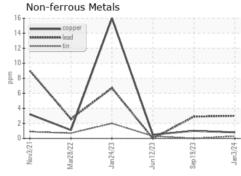


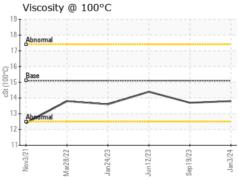
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

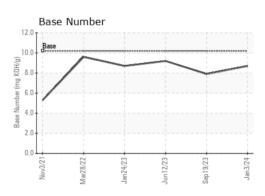
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.7	14.4	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10817325 Test Package : FLEET

: GFL0092590 : 06051376

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 04 Jan 2024

Diagnosed : 05 Jan 2024 Diagnostician : Don Baldridge

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL US 32824

Contact: Brian Bou Diaz

bboudiaz@gflenv.com

T: F:

Report Id: GFL885 [WUSCAR] 06051376 (Generated: 01/08/2024 14:49:25) Rev: 1

Submitted By: TIMOTHY MOURER