

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **731114** Component **Natural Gas Engine** Fluid **PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

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.

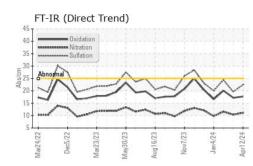
Fluid Condition

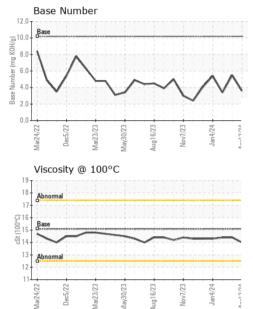
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117183	GFL0114072	GFL0114095
Sample Date		Client Info		12 Apr 2024	25 Mar 2024	06 Mar 2024
Machine Age	hrs	Client Info		7303	7176	7059
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	24	13
Chromium	ppm	ASTM D5185m	>4	<1	2	0
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	1	4	1
Lead	ppm	ASTM D5185m	>30	<1	4	2
Copper	ppm	ASTM D5185m	>35	1	23	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	15	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	47	79	57
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m	560	460	738	534
Calcium	ppm	ASTM D5185m	1510	1575	2194	1561
Phosphorus	ppm	ASTM D5185m	780	666	1065	632
Zinc	ppm	ASTM D5185m	870	865	1330	903
Sulfur	ppm	ASTM D5185m	2040	2724	3598	2245
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	8	4
Sodium	ppm	ASTM D5185m		7	<u> </u>	3
Potassium	ppm	ASTM D5185m	>20	9	▲ 33	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.4	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	19.6	24.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.2	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.6	5.5	3.4



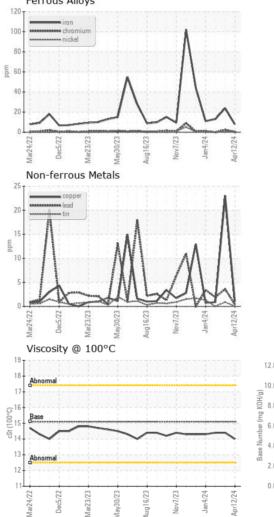
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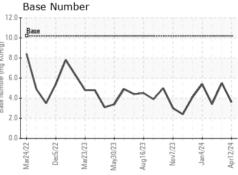




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	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	15.1	14.0	14.4	14.4
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0117183 Received : 16 Apr 2024 7801 East Truman Road ģ Lab Number : 06151032 Tested : 17 Apr 2024 Kansas City, MO Unique Number : 10981110 Diagnosed : 17 Apr 2024 - Wes Davis US 64126 Test Package : FLEET Contact: Loyce Stewart Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. loyce.stewart@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F:

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

Report Id: GFL836 [WUSCAR] 06151032 (Generated: 04/17/2024 16:42:58) Rev: 1

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836

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