

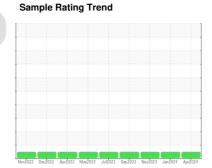
OIL ANALYSIS REPORT



{UNASSIGNED} 713036

1 Diesel Engine

PETRO CANADA 15W40 (7 GAL)







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

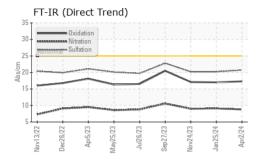
Fluid Condition

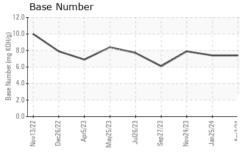
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

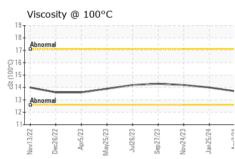
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115142	GFL0106655	GFL0097680
Sample Date		Client Info		02 Apr 2024	25 Jan 2024	24 Nov 2023
Machine Age	hrs	Client Info		5744	5144	4557
Oil Age	hrs	Client Info		600	587	536
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	11	11	15
	ppm	ASTM D5185m	>5	<1	<1	0
	ppm	ASTM D5185m	>4	0	0	0
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>15	<1	2	<1
		ASTM D5105m	>25	0	<1	0
	ppm			0		
	ppm	ASTM D5185m	>100		<1	<1
	ppm	ASTM D5185m	>4	0	0	0
	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	5	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		57	64	63
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		960	904	1101
Calcium	ppm	ASTM D5185m		1054	1183	1259
Phosphorus	ppm	ASTM D5185m		1046	1058	1225
Zinc	ppm	ASTM D5185m		1268	1324	1544
Sulfur	ppm	ASTM D5185m		3420	3136	3494
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	2
Sodium	ppm	ASTM D5185m		4	4	12
Potassium	ppm	ASTM D5185m	>20	0	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.5	0.6
	Abs/cm	*ASTM D7624	>20	8.8	9.1	9.0
	Abs/.1mm	*ASTM D7415	>30	20.7	20.2	20.2
FLUID DEGRADA	MOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.0	17.1
	mg KOH/g	ASTM D2896		7.4	7.4	7.9
Dasc Namber (DIN)	ing Norly	7.0 TW D2000		7.7	7.7	1.0



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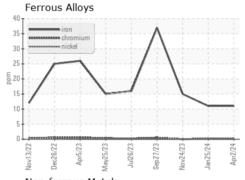


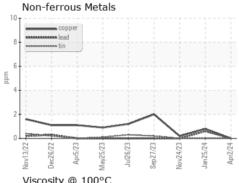


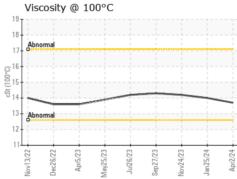
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

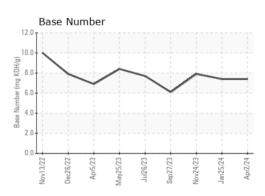
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445		13.7	14.0	14.2

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115142 Lab Number : 06140833 Unique Number : 10965641

Received : 08 Apr 2024 **Tested** : 08 Apr 2024 Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd NORTHVILLE, MI US 48168

ahopkins@gflenv.com

Test Package : FLEET 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)

Contact: Anthony Hopkins

T:

F: