

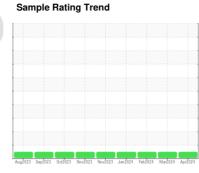
OIL ANALYSIS REPORT



(42KM3B) GFL837 834049

Natural Gas 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.

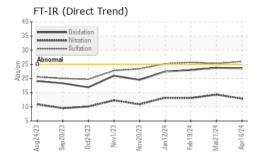
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SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118763	GFL0114117	GFL0108072
Sample Date		Client Info		16 Apr 2024	21 Mar 2024	19 Feb 2024
Machine Age	hrs	Client Info		1155	1155	1016
Oil Age	hrs	Client Info		1155	1155	1016
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA [*]	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	73	80	64
Chromium	ppm	ASTM D5185m	>4	2	2	2
Nickel	ppm	ASTM D5185m	>2	3	3	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>9	6	6	5
Lead	ppm	ASTM D5185m	>30	3	3	2
Copper	ppm	ASTM D5185m	>35	17	18	15
Tin	ppm	ASTM D5185m	>4	2	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	10	4
Barium	ppm	ASTM D5185m	5	3	4	3
Molybdenum	ppm	ASTM D5185m	50	62	63	55
Manganese	ppm	ASTM D5185m	0	13	15	13
Magnesium	ppm	ASTM D5185m	560	734	778	744
Calcium	ppm	ASTM D5185m	1510	1371	1425	1214
Phosphorus	ppm	ASTM D5185m	780	825	787	697
Zinc	ppm	ASTM D5185m	870	976	1001	912
Sulfur	ppm	ASTM D5185m	2040	2580	2516	2127
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	26	29	28
Sodium	ppm	ASTM D5185m		4	4	7
Potassium	ppm	ASTM D5185m	>20	7	13	0
INFRA-RED	_	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.9	14.3	13.1
Sulfation	Abs/.1mm	*ASTM D7415		26.0	25.3	25.7
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	23.8	23.0
Doos Number (DNI)	ma 1/011/a	ACTM DOOOC	10.0	2.0	4.0	0.0

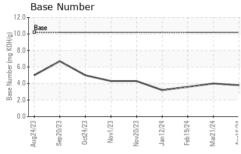
3.8

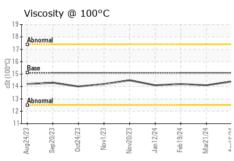
Base Number (BN) mg KOH/g ASTM D2896 10.2

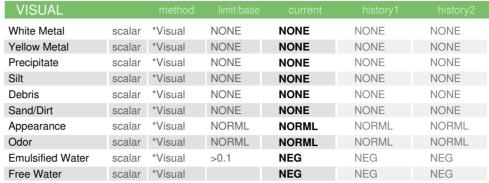


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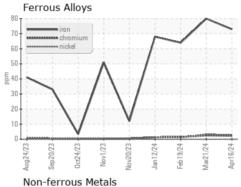


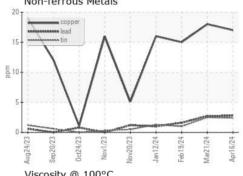


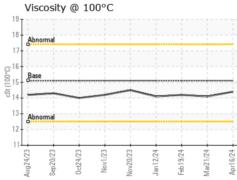
FLUID PROPI	ERIIES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.1	14.2

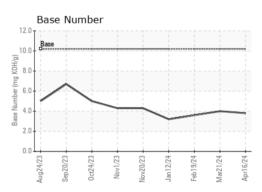
GRAPHS

FLUID DDOI













Certificate 12367

Laboratory Sample No.

: GFL0118763 Lab Number : 06156768 Unique Number : 10992191 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 - Sean Felton

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

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