

OIL ANALYSIS REPORT

(MR7426) **AUTOCAR 3684C**

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (6 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample hours in system messed up, unknown fluid, and filter age.)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

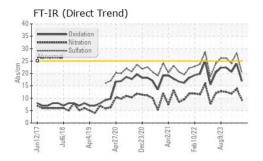
Fluid Condition

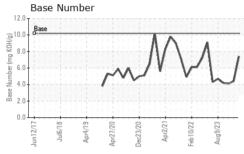
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

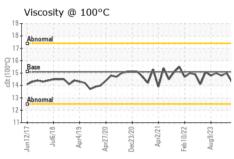
(6 GAL) n2017 Ju2018 Apr2019 Apr2020 Dec2020 Apr2021 Feb2022 Aug2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109615	GFL0109586	GFL0087501
Sample Date		Client Info		12 Jul 2024	07 Feb 2024	13 Dec 2023
Machine Age	hrs	Client Info		18882	33559	18322
Oil Age	hrs	Client Info		100	1283	941
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	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	14	20	10
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	4	3	2
Lead	ppm	ASTM D5185m	>30	1	9	3
Copper	ppm	ASTM D5185m	>35	6	3	2
Tin	ppm	ASTM D5185m	>4	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	29	9	6
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	61	71	62
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	656	686	538
Calcium	ppm	ASTM D5185m	1510	1815	1861	1706
Phosphorus	ppm	ASTM D5185m	780	918	886	715
Zinc	ppm	ASTM D5185m	870	1114	1153	1038
Sulfur	ppm	ASTM D5185m	2040	2720	2664	1897
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	5	5
Sodium	ppm	ASTM D5185m		11	8	10
Potassium	ppm	ASTM D5185m	>20	3	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	13.7	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	28.3	24.1
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	23.9	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.4	4.4	4.1



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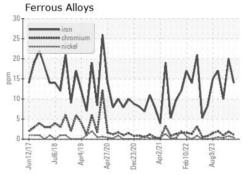


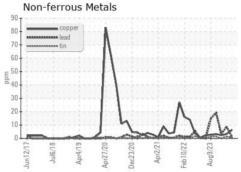


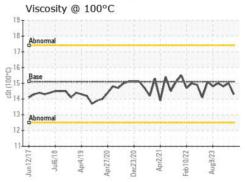
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

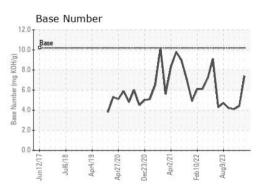
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	15.0	14.8

GRAPHS













Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0109615 Lab Number : 06239856

Unique Number : 11128690 Test Package : FLEET

Received : 18 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Don Baldridge

GFL Environmental - 331 - Columbus

180 Ada Moore Rd Columbus, NC US 28722

Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618

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.

F: (252)617-2494 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)