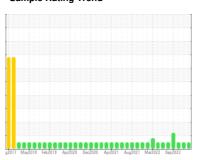


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3760C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (40 QTS)

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

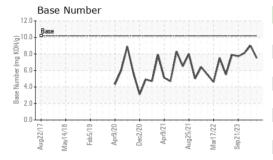
Fluid Condition

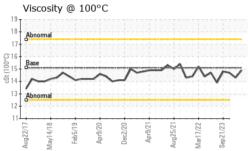
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 Sample Number Client Info GFL0090069 GFL0090103 GFL0090117 Sample Date Client Info 02 Nov 2023 18 Oct 2023 12 Oct 2023 14 Oct 2023 12 Oct 2023 18 Oct 2023 12 Oct 2023 16 Oct 2023 12 Oct 2024 North Male North Mal	(40 QTS)						
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 14985 14812 14680 Oil Age hrs Client Info 600 132 600 Oil Changed Client Info Changed Not Changd Changed Sample Status NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 Iron ppm ASTM D5185m >50 15 3 4 Chromium ppm ASTM D5185m >4 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Sample Number		Client Info		GFL0090069	GFL0090103	GFL0090117
Oil Age hrs Client Info 600 132 600 Oil Changed Client Info Changed Not Changed Changed Sample Status Normal Normal Normal Normal Changed WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 15 3 4 Chromium ppm ASTM D5185m >4 1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >35 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Sample Date		Client Info		02 Nov 2023	18 Oct 2023	12 Oct 2023
Oil Changed Sample Status Client Info Changed NORMAL Not Changed NORMAL Changed NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 15 3 4 Chromium ppm ASTM D5185m >4 1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >9 2 <1 2 Lead ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >4 0 0 <1 Vanadium ppm ASTM D5185m >6 2 47	Machine Age	hrs	Client Info		14985	14812	14680
NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2	Oil Age	hrs	Client Info		600	132	600
WEAR METALS	Oil Changed		Client Info		Changed	Not Changd	Changed
Iron	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >4 1 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 0 0 <1	Iron	ppm	ASTM D5185m	>50	15	3	4
Titanium	Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 <1	Nickel	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 <1	Aluminum	ppm	ASTM D5185m	>9	2	<1	2
Tin ppm ASTM D5185m >4 0 0 <1	Lead	ppm	ASTM D5185m	>30	0	0	0
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Cadmium ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>4	0	0	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1	<1	<1
Boron	Cadmium	ppm	ASTM D5185m		0	0	<1
Barium ppm ASTM D5185m 5 0 0 10 Molybdenum ppm ASTM D5185m 50 48 46 46 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 560 534 507 499 Calcium ppm ASTM D5185m 1510 1482 1440 1393 Phosphorus ppm ASTM D5185m 780 718 661 739 Zinc ppm ASTM D5185m 870 881 843 841 Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 48 46 46 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	50	22	47	39
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	5	0	0	10
Magnesium ppm ASTM D5185m 560 534 507 499 Calcium ppm ASTM D5185m 1510 1482 1440 1393 Phosphorus ppm ASTM D5185m 780 718 661 739 Zinc ppm ASTM D5185m 870 881 843 841 Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/:nm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION *ASTM D7414 >	Molybdenum	ppm	ASTM D5185m	50	48	46	46
Calcium ppm ASTM D5185m 1510 1482 1440 1393 Phosphorus ppm ASTM D5185m 780 718 661 739 Zinc ppm ASTM D5185m 870 881 843 841 Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >> 20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7415 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus ppm ASTM D5185m 780 718 661 739 Zinc ppm ASTM D5185m 870 881 843 841 Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base	Magnesium	ppm	ASTM D5185m	560	534	507	499
Zinc ppm ASTM D5185m 870 881 843 841 Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16	Calcium	ppm	ASTM D5185m	1510	1482	1440	1393
Sulfur ppm ASTM D5185m 2040 2200 2246 2355 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m >+100 6 5 2 Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Phosphorus	ppm	ASTM D5185m	780	718	661	739
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Zinc	ppm	ASTM D5185m	870	881	843	841
Silicon ppm ASTM D5185m >+100 8 11 4 Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Sulfur	ppm	ASTM D5185m	2040	2200	2246	2355
Sodium ppm ASTM D5185m 6 5 2 Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 11 0 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Silicon	ppm	ASTM D5185m	>+100		11	4
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Sodium	ppm	ASTM D5185m		6	5	2
Soot % % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Potassium	ppm	ASTM D5185m	>20	11	0	1
Nitration Abs/cm *ASTM D7624 >20 8.7 6.2 6.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.9 18.7 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Soot %	%	*ASTM D7844		0	0	0
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.6 15.3	Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.2	6.4
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.7	18.4
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.5 9.0 8.1	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	15.6	15.3
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.5	9.0	8.1



OIL ANALYSIS REPORT

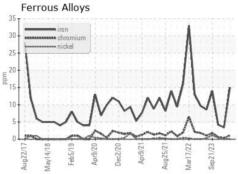


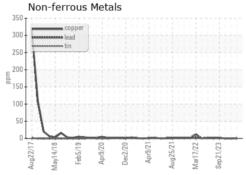


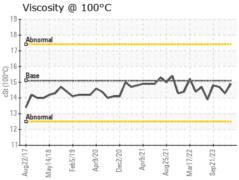
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual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

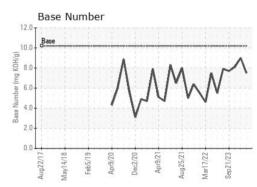
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.3	14.7

GRAPHS













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090069 : 05997748 : 10726108

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

Received Diagnosed

: 03 Nov 2023 : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: CHET STROSCHINE

cstroschine@gflenv.com

* - 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) T:

F: