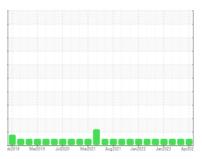


OIL ANALYSIS REPORT

(YA141254) 3777C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (46 GAL)



Sample Rating Trend



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

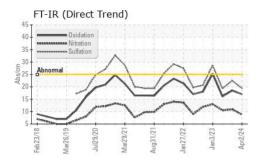
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

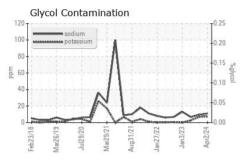
(46 GAL) 602018 Mar2019 Jul2020 Mar2021 Jun2022 Jun2023 Apr202						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090044	GFL0080597	GFL0074425
Sample Date		Client Info		02 Apr 2024	20 Jul 2023	11 May 2023
Machine Age	hrs	Client Info		93855	93855	93855
Oil Age	hrs	Client Info		0	93855	93855
Oil Changed	0	Client Info		Changed	Changed	Changed
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	12	29	13
Chromium	ppm	ASTM D5185m	>4	2	1	1
Nickel	ppm	ASTM D5185m	>2	1	0	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	4
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	<1	0	<1
Tin	ppm	ASTM D5185m	>4	1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	37	6	11
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	69	52	56
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	560	831	614	685
Calcium	ppm	ASTM D5185m	1510	2268	1562	1546
Phosphorus	ppm	ASTM D5185m	780	1106	750	853
Zinc	ppm	ASTM D5185m	870	1354	1033	1126
Sulfur	ppm	ASTM D5185m	2040	3666	2820	3239
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	35	5	5
Sodium	ppm	ASTM D5185m		11	9	7
Potassium	ppm	ASTM D5185m	>20	7	7	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	22.5	19.3
ELLUB BEODA						
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		current 17.0	history1 18.5	history2 16.1

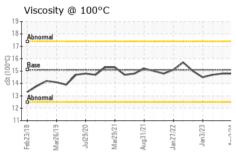
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.2

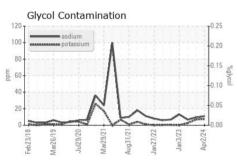


OIL ANALYSIS REPORT





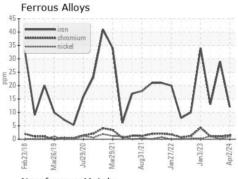


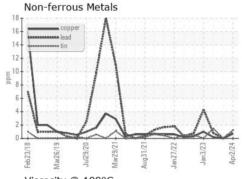


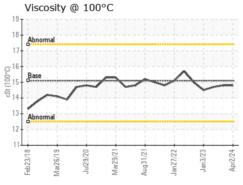
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

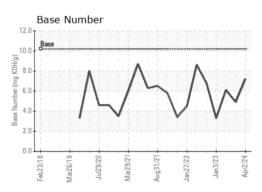
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.8	14.7

GRAPHS













Certificate 12367

Sample No.

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090044 Lab Number : 06138262

Received : 04 Apr 2024 **Tested** Diagnosed

: 10 Apr 2024 : 10 Apr 2024 - Jonathan Hester

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive Hope Mills, NC US 28348

Unique Number : 10963070 Test Package : FLEET (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

* - 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)

Submitted By: CHRIS HALL