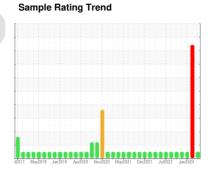


OIL ANALYSIS REPORT

(P633849) 10765C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 QTS)





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 oil.

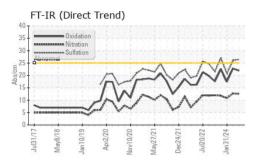
Fluid Condition

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

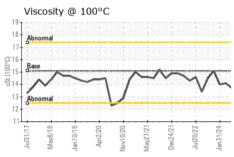
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117971	GFL0117965	GFL0101795
Sample Date		Client Info		09 May 2024	24 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		17692	17577	17102
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	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	37	14	11
Chromium	ppm	ASTM D5185m	>4	6	1	1
Nickel	ppm	ASTM D5185m	>2	2	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		3	1	2
Lead	ppm	ASTM D5185m	>30	14	8	<1
Copper	ppm	ASTM D5185m	>35	1	<1	<1
Tin	ppm	ASTM D5185m	>4	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	2	8
Barium	ppm	ASTM D5185m	5	2	0	<1
Molybdenum	ppm	ASTM D5185m	50	62	57	54
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	560	568	487	498
Calcium	ppm	ASTM D5185m	1510	1656	1450	1431
Phosphorus	ppm	ASTM D5185m	780	755	657	605
Zinc	ppm	ASTM D5185m		929	872	893
Sulfur	ppm	ASTM D5185m	2040	2363	2758	2139
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	10	5
Sodium	ppm	ASTM D5185m		8	<u>▲</u> 288	3
Potassium	ppm	ASTM D5185m	>20	6	△ 678	3
Glycol	%	*ASTM D2982			▲ 0.10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.7	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	25.9	20.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	22.8	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.2	3.0	4.3

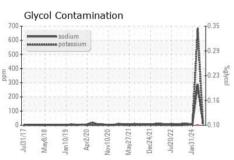


OIL ANALYSIS REPORT





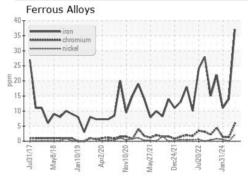


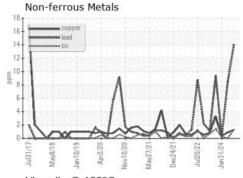


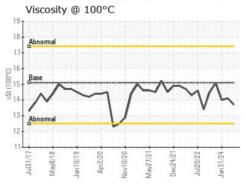
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

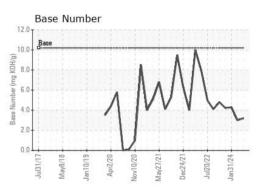
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	13.7	14.1	14.0	

GRAPHS













Laboratory Sample No.

Lab Number : 06176516 Unique Number : 11022569

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0117971 Received : 10 May 2024

Tested : 16 May 2024 Diagnosed : 16 May 2024 - Jonathan Hester

GFL Environmental - 030 - Conway Myrtle Beach 3010 HWY 378 Conway, SC

US 29527 Contact: ARCILIO RUEZ aruiz@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)

Report Id: GFL030 [WUSCAR] 06176516 (Generated: 05/16/2024 18:15:04) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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