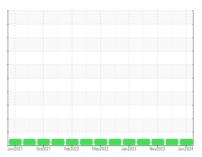


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 426084

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

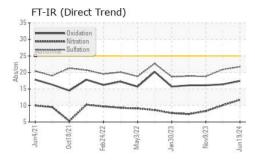
Fluid Condition

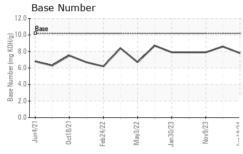
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

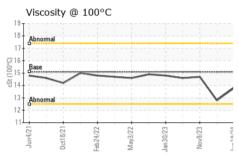
(LTR)		Jun2021	Oct2021 Feb2022	May2022 Jan2023 Nov2023	Jun2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119115	GFL0106992	GFL0094244
Sample Date		Client Info		19 Jun 2024	01 Mar 2024	09 Nov 2023
Machine Age	hrs	Client Info		21600	20677	19894
Oil Age	hrs	Client Info		21600	783	902
Oil Changed		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	25	18	5
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	3	<1	2
Lead	ppm	ASTM D5185m	>30	1	0	<1
Copper	ppm	ASTM D5185m	>35	2	0	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	2	27
Barium	ppm	ASTM D5185m	5	0	1	<1
Molybdenum	ppm	ASTM D5185m	50	70	58	53
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	974	880	566
Calcium	ppm	ASTM D5185m	1510	1474	1012	1507
Phosphorus	ppm	ASTM D5185m	780	992	1002	813
Zinc	ppm	ASTM D5185m	870	1385	1182	960
Sulfur	ppm	ASTM D5185m	2040	3035	2638	2598
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	2	3
Sodium	ppm	ASTM D5185m		40	17	5
Potassium	ppm	ASTM D5185m	>20	32	6	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.1	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.9	18.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.4	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.8	8.6	7.9



OIL ANALYSIS REPORT



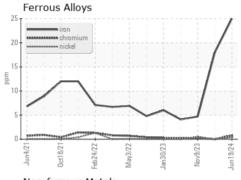


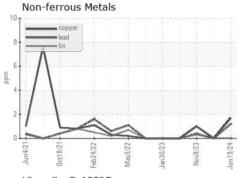


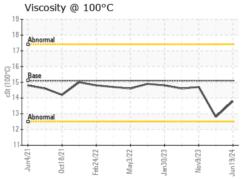
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual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

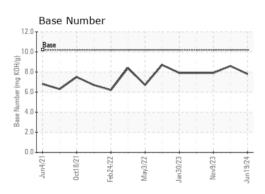
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	12.8	14.7

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06216610

Test Package : FLEET

: GFL0119115 Unique Number : 11089474

Received : 21 Jun 2024 **Tested** : 24 Jun 2024 Diagnosed

: 24 Jun 2024 - Sean Felton

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@gflenv.com

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: GFL882 [WUSCAR] 06216610 (Generated: 06/24/2024 10:34:31) Rev: 1

Submitted By: CARL MIMS

T:

F: