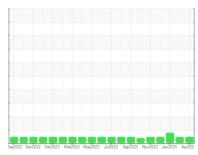


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 731118

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

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

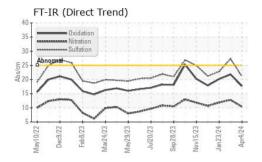
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

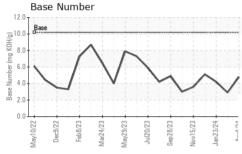
(GAL)						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114001	GFL0109794	GFL0103312
Sample Date		Client Info		04 Apr 2024	27 Feb 2024	23 Jan 2024
	hrs	Client Info		6546	6355	6203
	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	6	24	△ 50
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	3	5
_ead	ppm	ASTM D5185m	>30	2	22	2
Copper	ppm	ASTM D5185m	>35	8	1	14
	ppm	ASTM D5185m	>4	<1	2	2
	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	10	13
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	51	63	47
Manganese	ppm	ASTM D5185m	0	<1	1	11
Magnesium	ppm	ASTM D5185m	560	580	777	752
Calcium	ppm	ASTM D5185m	1510	1686	2224	1323
Phosphorus	ppm	ASTM D5185m	780	816	907	759
Zinc	ppm	ASTM D5185m	870	1017	1347	842
Sulfur	ppm	ASTM D5185m	2040	3051	3040	2165
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	6	29
	ppm	ASTM D5185m		2	8	2
Potassium	ppm	ASTM D5185m	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	12.8	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	27.3	22.8
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	21.8	20.2
Dogo Number (DNI)		ACTM DOOGG	100	4.0	2.0	4.0

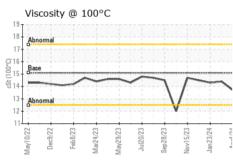
Base Number (BN) mg KOH/g ASTM D2896 10.2 4.8



OIL ANALYSIS REPORT



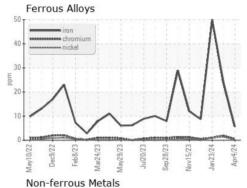


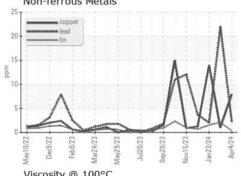


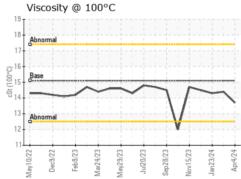
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

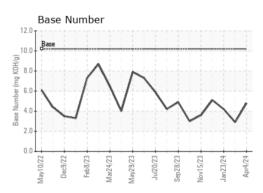
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.7	14.4	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06140844

: GFL0114001 Unique Number : 10965652 Test Package : FLEET

Received : 08 Apr 2024 **Tested** Diagnosed

: 08 Apr 2024 : 08 Apr 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@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)

T:

F: