

OIL ANALYSIS REPORT



(YA113962) 3438C Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (28 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

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.

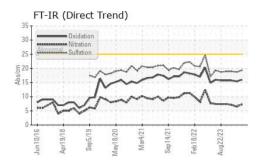
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112901	GFL0079625	GFL0098135
Sample Date		Client Info		24 Apr 2024	22 Feb 2024	23 Jan 2024
3-	hrs	Client Info		9060	9060	9060
0	hrs	Client Info		310	576	170
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	17	3	5
Chromium	ppm	ASTM D5185m	>4	5	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	2
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>35	2	<1	<1
	ppm	ASTM D5185m	>4	0	0	0
	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	37	46	36
Barium	ppm	ASTM D5185m	5	<1	8	0
Molybdenum	ppm	ASTM D5185m	50	52	44	47
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	560	580	482	580
Calcium	ppm	ASTM D5185m	1510	1551	1325	1611
Phosphorus	ppm	ASTM D5185m	780	781	760	781
Zinc	ppm	ASTM D5185m	870	926	825	963
	ppm	ASTM D5185m	2040	2690	2498	2493
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	8	7
Sodium	ppm	ASTM D5185m		4	<1	4
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.5	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.7	18.9
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.4	15.7

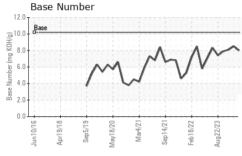
8.0

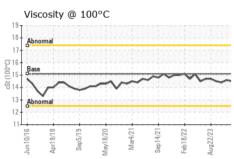
Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT



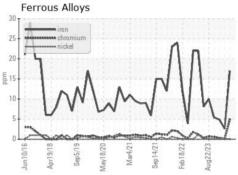


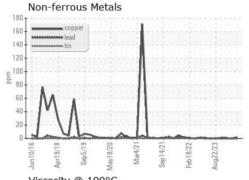


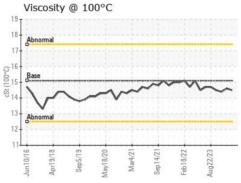
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

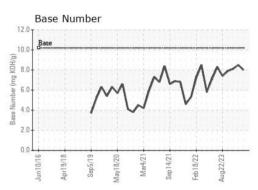
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6	14.4

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06158939 Unique Number : 10994362 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112901

Received : 24 Apr 2024 **Tested** Diagnosed

: 25 Apr 2024 : 25 Apr 2024 - Don Baldridge

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact:

bill.waring@wearcheck.com T: (919)596-1363

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) F: (919)598-1852

Report Id: GFL017 [WUSCAR] 06158939 (Generated: 04/25/2024 15:13:53) Rev: 1

Submitted By: Ren - William Russel