

OIL ANALYSIS REPORT

(YA134225) 3748C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (5 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

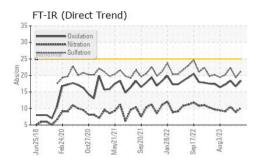
Fluid Condition

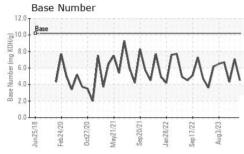
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

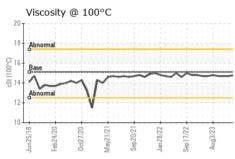
(O GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125789	GFL0112941	GFL0079626
Sample Date		Client Info		02 Jul 2024	01 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		7667	7667	7667
Oil Age	hrs	Client Info		480	198	576
Oil Changed		Client Info		N/A	N/A	N/A
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	19	14	22
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m		3	2	3
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium		ASTM D5185m	7 4	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	22	10
Barium	ppm	ASTM D5185m	5	<1	0	8
Molybdenum	ppm	ASTM D5185m	50	51	47	49
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	512	561	495
Calcium	ppm	ASTM D5185m	1510	1493	1558	1411
Phosphorus	ppm	ASTM D5185m	780	664	772	727
Zinc	ppm	ASTM D5185m	870	910	930	901
Sulfur	ppm	ASTM D5185m	2040	2049	2747	2456
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	4
Sodium	ppm	ASTM D5185m		4	6	5
Potassium	ppm	ASTM D5185m	>20	3	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	19.3	22.4
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	16.7	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.5	7.1	4.3



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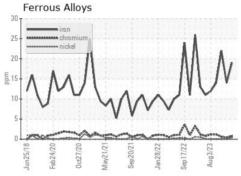


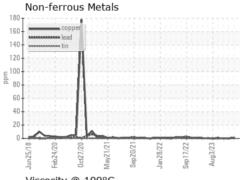


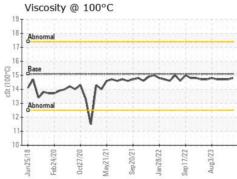
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

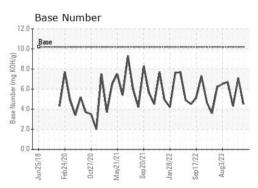
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.7	14.7

GRAPHS













Laboratory Sample No. Unique Number : 11109295

: GFL0125789 Lab Number : 06225802

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Jul 2024

Tested : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

bill.waring@wearcheck.com

US 27703 Contact:

T: (919)596-1363

F: (919)598-1852

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)