

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 934021 Component **Natural Gas Engine**

PETRO CANADA DURON

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

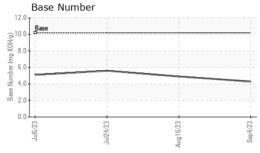
Fluid Condition

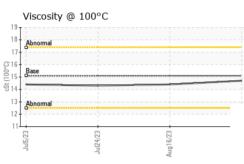
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0E0 D 4EW/40 /	041)					
GEO LD 15W40 (Jul202	3 Jul2023	Aug2023 Si	p2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090646	GFL0087208	GFL0087152
Sample Date		Client Info		04 Sep 2023	16 Aug 2023	24 Jul 2023
Machine Age	hrs	Client Info		594	490	323
Oil Age	hrs	Client Info		0	0	323
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	10	37	35
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	5	4
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>150	<1	17	18
Tin	ppm	ASTM D5185m	>4	<1	2	1
√anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	11	10	17
Barium	ppm	ASTM D5185m	5	0	0	6
Molybdenum	ppm	ASTM D5185m	50	54	54	51
Manganese	ppm	ASTM D5185m	0	<1	10	10
Magnesium	ppm	ASTM D5185m	560	584	796	861
Calcium	ppm	ASTM D5185m	1510	1704	1279	1257
Phosphorus	ppm	ASTM D5185m	780	701	715	784
Zinc	ppm	ASTM D5185m	870	982	934	987
Sulfur	ppm	ASTM D5185m	2040	2820	2687	2942
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	34	33
Sodium	ppm	ASTM D5185m		7	6	4
Potassium	ppm	ASTM D5185m	>20	0	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
	A la a /a usa	*ASTM D7624	>20	10.8	11.2	11.2
Nitration	Abs/cm	/ TO THE DIOL !				
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.0	20.5
	Abs/.1mm	*ASTM D7415	>30 limit/base			
Sulfation	Abs/.1mm	*ASTM D7415		21.9	21.0	20.5 history2



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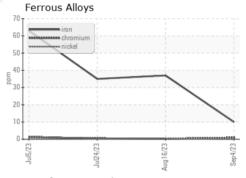


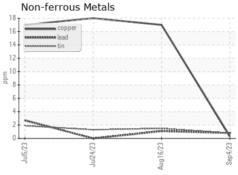


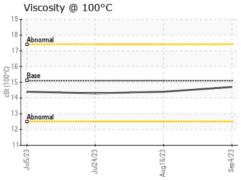
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

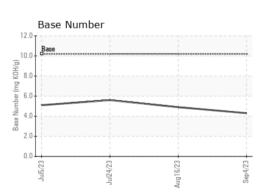
	ERITES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.4	14.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10635632 Test Package : FLEET

: GFL0090646 : 05945020

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Sep 2023 Diagnosed Diagnostician : Wes Davis

: 08 Sep 2023

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

* - 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)