

OIL ANALYSIS REPORT







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.

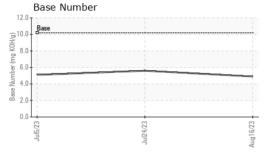
Fluid Condition

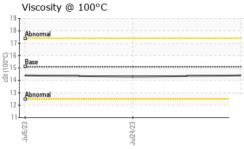
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GEO LD 15W40 (GAL)	Ju	2023	Jul2023 Aug20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087208	GFL0087152	GFL0083765
Sample Date		Client Info		16 Aug 2023	24 Jul 2023	05 Jul 2023
Machine Age	hrs	Client Info		490	323	175
Oil Age	hrs	Client Info		0	323	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	37	35	63
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m	>5	0	0	3
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	5	4	6
Lead	ppm	ASTM D5185m	>40	1	0	3
Copper	ppm	ASTM D5185m	>150	17	18	17
Tin	ppm	ASTM D5185m	>4	2	1	2
√anadium	ppm	ASTM D5185m		- <1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	17	15
Barium	ppm	ASTM D5185m	5	0	6	3
Molybdenum	ppm	ASTM D5185m	50	54	51	53
Manganese	ppm	ASTM D5185m	0	10	10	7
Magnesium	ppm	ASTM D5185m	560	796	861	734
Calcium	ppm	ASTM D5185m	1510	1279	1257	1323
Phosphorus	ppm	ASTM D5185m	780	715	784	686
Zinc	ppm	ASTM D5185m	870	934	987	939
Sulfur	ppm	ASTM D5185m	2040	2687	2942	2826
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	34	33	45
Sodium	ppm	ASTM D5185m		6	4	5
Potassium	ppm	ASTM D5185m	>20	3	3	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
	Abs/cm	*ASTM D7624	>20	11.2	11.2	11.8
Vitration	ADS/CIII	710111127021				
	Abs/.1mm	*ASTM D7415	>30	21.0	20.5	23.6
	Abs/.1mm	*ASTM D7415	>30 limit/base		20.5 history1	
Nitration Sulfation FLUID DEGRAD Oxidation	Abs/.1mm	*ASTM D7415		21.0		23.6 history2 19.1



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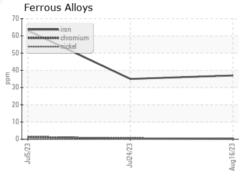


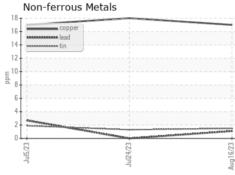


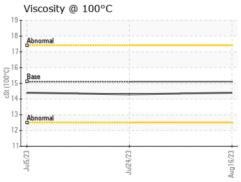
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

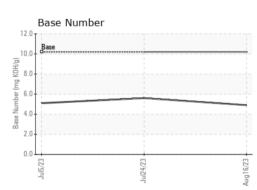
FLUID PROP	EHILO	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.3	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10616673

: GFL0087208 : 05931402 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Aug 2023 Diagnosed : 23 Aug 2023 Diagnostician : Wes Davis

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

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)