

OIL ANALYSIS REPORT

Sample Rating Trend







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.

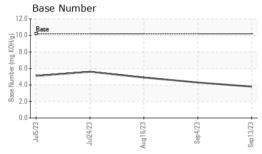
GEO LD 15W40 (GAL)	Jul2023	Jul2023	Aug2023 Sep2023	Sep2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090682	GFL0090646	GFL0087208
Sample Date		Client Info		13 Sep 2023	04 Sep 2023	16 Aug 2023
Machine Age	hrs	Client Info		633	594	490
Oil Age	hrs	Client Info		633	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	41	10	37
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	2	0	<1
Γitanium	ppm	ASTM D5185m	>5	0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	10	2	5
_ead	ppm	ASTM D5185m	>40	2	<1	1
Copper	ppm	ASTM D5185m	>150	18	<1	17
Γin	ppm	ASTM D5185m	>4	2	<1	2
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	11	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	54	54
Manganese	ppm	ASTM D5185m	0	10	<1	10
Magnesium	ppm	ASTM D5185m	560	830	584	796
Calcium	ppm	ASTM D5185m	1510	1338	1704	1279
Phosphorus	ppm	ASTM D5185m	780	766	701	715
Zinc	ppm	ASTM D5185m	870	1056	982	934
Sulfur	ppm	ASTM D5185m	2040	2662	2820	2687
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	35	4	34
Sodium	ppm	ASTM D5185m		7	7	6
Potassium	ppm	ASTM D5185m	>20	12	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.8	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.9	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	18.2	19.6
De de Nicode de (DN)		AOTH DOGGO	10.0		4.0	4.0

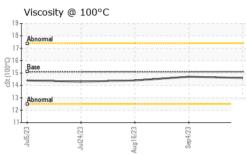
Base Number (BN) mg KOH/g ASTM D2896 10.2

3.8



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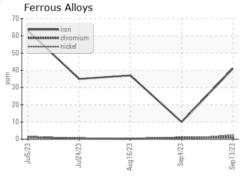


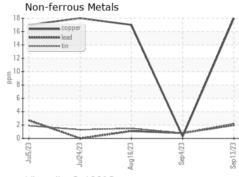


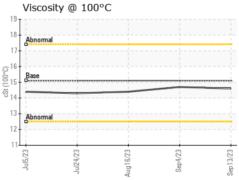
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

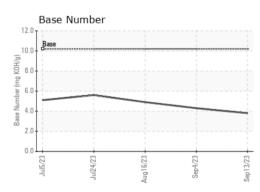
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.7	14.4

GRAPHS











Laboratory Sample No. Lab Number Unique Number : 10655013

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090682 : 05953800

Test Package : FLEET

Received : 18 Sep 2023 Diagnosed : 19 Sep 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)