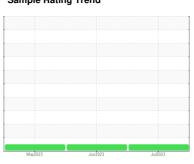


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 934023

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (

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.

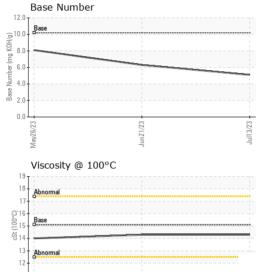
Fluid Condition

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

(GAL)							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0087170	GFL0083787	GFL0083815	
Sample Date		Client Info		13 Jul 2023	21 Jun 2023	26 May 2023	
Machine Age	hrs	Client Info		475	320	153	
Oil Age	hrs	Client Info		475	320	153	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS met		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	44	38	31	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	<1	
Aluminum	ppm	ASTM D5185m	>9	9	7	3	
Lead	ppm	ASTM D5185m	>30	<1	0	0	
Copper	ppm	ASTM D5185m	>35	20	18	17	
Tin	ppm	ASTM D5185m	>4	1	1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	11	17	29	
Barium	ppm	ASTM D5185m	5	5	3	2	
Molybdenum	ppm	ASTM D5185m	50	54	49	46	
Manganese	ppm	ASTM D5185m	0	13	12	11	
Magnesium	ppm	ASTM D5185m	560	824	800	781	
Calcium	ppm	ASTM D5185m	1510	1236	1143	1115	
Phosphorus	ppm	ASTM D5185m	780	714	749	745	
Zinc	ppm	ASTM D5185m	870	956	936	901	
Sulfur	ppm	ASTM D5185m	2040	2726	2821	2853	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	38	35	32	
Sodium	ppm	ASTM D5185m		5	4	4	
Potassium	ppm	ASTM D5185m	>20	19	11	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	12.2	11.5	8.9	
Sulfation	Abs/.1mm	*ASTM D7415		21.3	21.2	20.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	20.1	18.4	
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	6.3	8.1	
()	0						



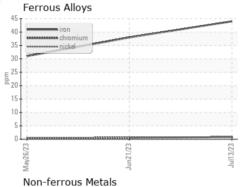
OIL ANALYSIS REPORT

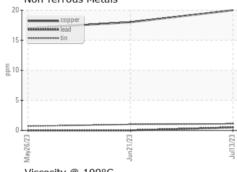


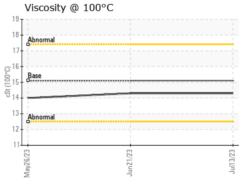
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

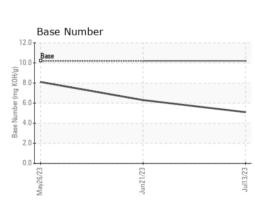
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.3	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10566092

: GFL0087170 : 05904736

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed : 24 Jul 2023

Diagnostician : Wes Davis

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)

GFL Environmental - 836 - Kansas City Hauling

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