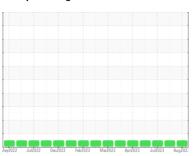


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 731121

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

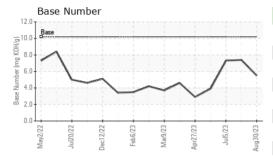
Fluid Condition

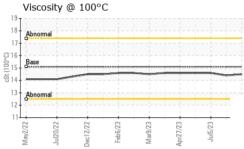
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0090693	GFL0087181	GFL0083762	
Sample Date		Client Info		30 Aug 2023	27 Jul 2023	05 Jul 2023	
Machine Age	hrs	Client Info		1638	5940	5778	
Oil Age	hrs	Client Info		0	0	1200	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	11	6	9	
Chromium	ppm	ASTM D5185m	>4	1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>9	4	3	3	
Lead	ppm	ASTM D5185m	>30	0	<1	5	
Copper	ppm	ASTM D5185m		<1	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	0	1	
Vanadium	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	20	26	32	
Barium	ppm	ASTM D5185m	5	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	63	49	55	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	644	562	626	
Calcium	ppm	ASTM D5185m	1510	1755	1555	1638	
Phosphorus	ppm	ASTM D5185m	780	764	733	821	
Zinc	ppm	ASTM D5185m	870	1015	895	1008	
Sulfur	ppm	ASTM D5185m	2040	2948	2631	3063	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	5	3	4	
Sodium	ppm	ASTM D5185m		8	6	4	
Potassium	ppm	ASTM D5185m	>20	0	<1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.2	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	18.7	20.6	
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.4	16.8	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.5	7.4	7.3	



OIL ANALYSIS REPORT

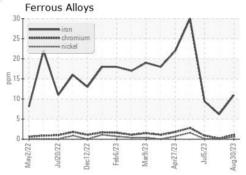


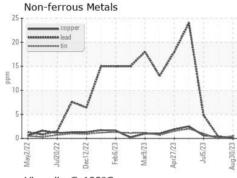


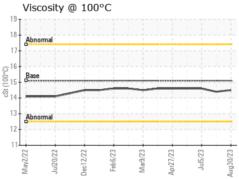
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

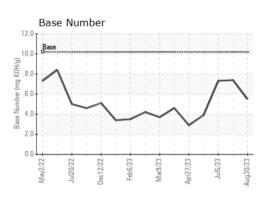
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.4	14.6

GRAPHS













Certificate L2367

Report Id: GFL836 [WUSCAR] 05940561 (Generated: 09/01/2023 18:16:57) Rev: 1

Laboratory Sample No. Lab Number

Unique Number : 10631173 Test Package : FLEET

: GFL0090693 : 05940561

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Sep 2023 Diagnosed : 01 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

* - 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)