

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **834015**

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

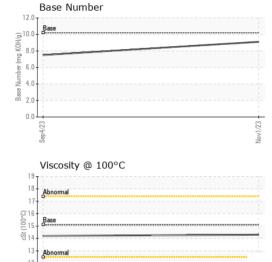
Fluid Condition

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

(GAL)			Sep2023	Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098674	GFL0090649	
Sample Date		Client Info		01 Nov 2023	04 Sep 2023	
Machine Age	hrs	Client Info		335	166	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	43	12	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	4	3	
Lead	ppm	ASTM D5185m	>30	2	1	
Copper	ppm	ASTM D5185m		15	2	
	ppm	ASTM D5185m	>4	1	<1	
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	13	51	
	ppm	ASTM D5185m	5	0	<1	
	ppm	ASTM D5185m	50	51	51	
	ppm	ASTM D5185m		9	1	
Magnesium	ppm	ASTM D5185m	560	765	628	
	ppm	ASTM D5185m	1510	1163	1485	
	ppm	ASTM D5185m	780	704	783	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	870 2040	926 2267	972 2983	
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>+100	30	21	1113t01 y 2
Sodium	ppm	ASTM D5185m	>+100	4	3	
_	ppm	ASTM D5185m	>20	5	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.9	
	Abs/.1mm	*ASTM D7415	>30	19.0	19.9	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.7	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	9.1	7.5	



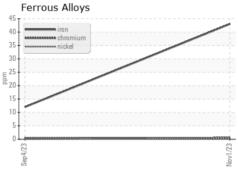
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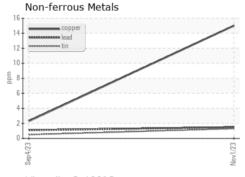


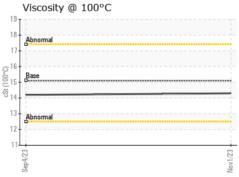
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

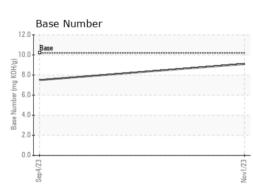
			method			riistory i	History2
Vi	sc @ 100°C	cSt	ASTM D445	15.1	14.3	14.2	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10739974

: 06006212

: GFL0098674 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Nov 2023

Diagnosed : 14 Nov 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)