

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id 731123

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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095134	GFL0090695	GFL0087166
Sample Date		Client Info		16 Oct 2023	28 Sep 2023	10 Aug 2023
Machine Age	hrs	Client Info		5545	5442	5172
Oil Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	22	12	18
Chromium	ppm	ASTM D5185m	>4	2	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	<1	2
Lead	ppm	ASTM D5185m	>30	8	<1	18
Copper	ppm	ASTM D5185m	>35	3	0	2
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	11	6	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	86	58	58
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	857	959	624
Calcium	ppm	ASTM D5185m	1510	2434	1127	1869
Phosphorus	ppm	ASTM D5185m	780	1037	1020	749
Zinc	ppm	ASTM D5185m	870	1438	1288	1022
Sulfur	ppm	ASTM D5185m	2040	3650	3243	2803
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	3	5
Sodium	ppm	ASTM D5185m		13	3	10
Potassium	ppm	ASTM D5185m	>20	2	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.6	0
Nitration	Abs/cm	*ASTM D7624	>20	11.3	6.5	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	18.8	24.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	14.3	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.2	7.5	3.1



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Abn

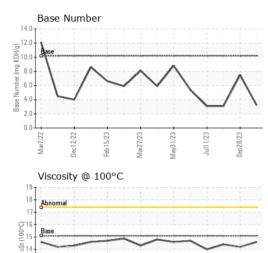
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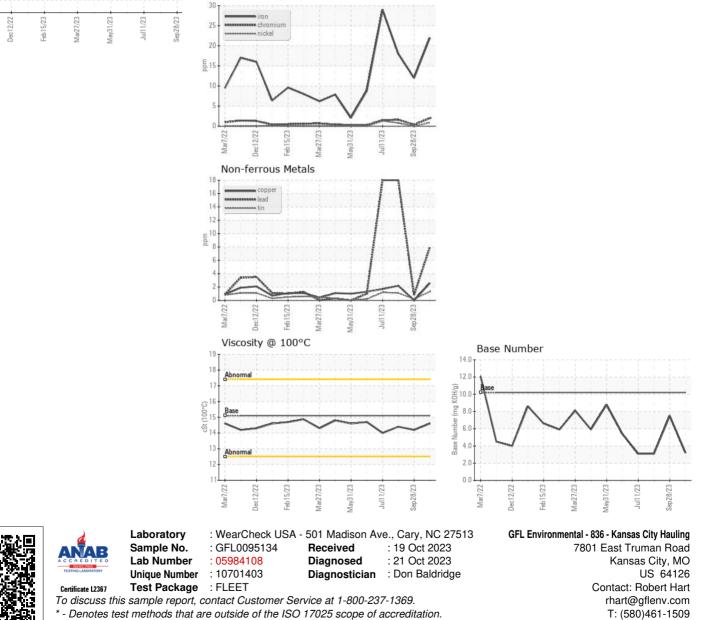
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VISUAL

Ferrous Alloys







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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