

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 945002-260234

Component Natural Gas Engine

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

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 INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094256	GFL0085401	GFL0066779
Sample Date		Client Info		12 Oct 2023	07 Jul 2023	19 Dec 2022
Machine Age	hrs	Client Info		8310	68802	63367
Oil Age	hrs	Client Info		0	68802	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	10	23
Chromium	ppm	ASTM D5185m	>4	1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	3
Lead	ppm	ASTM D5185m	>30	<1	2	13
Copper	ppm	ASTM D5185m	>35	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	14	7	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	52	64
Manganese	ppm	ASTM D5185m	0	0	<1	2
Magnesium	ppm	ASTM D5185m	560	503	526	640
Calcium	ppm	ASTM D5185m	1510	1358	1627	1924
Phosphorus	ppm	ASTM D5185m	780	700	653	867
Zinc	ppm	ASTM D5185m	870	863	957	1139
Sulfur	ppm	ASTM D5185m	2040	2232	2838	3288
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	6
Sodium	ppm	ASTM D5185m		3	6	10
Potassium	ppm	ASTM D5185m	>20	<1	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.2	11.7	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	23.2	29.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	18.7	23.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.9	4.7	4.1



13 Abnorma

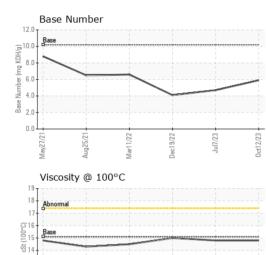
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May27/21

Aug25/21

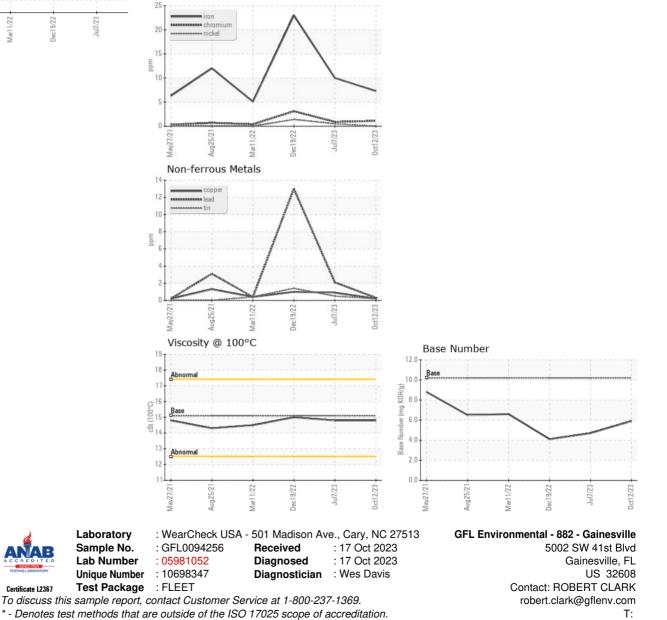
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Ferrous Alloys



Mar11/22

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	RTIES	method	limit/base	current	history1	history2
		method	iiiiii/base	current	HISTOLA	TIIStOLYZ
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.8	15.0
GRAPHS						



Submitted By: STEPHEN WEIL

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