

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

## NORMAL

# 10739C AUTOCAR ISL

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

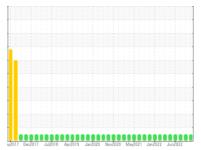
All component wear rates are normal.

#### 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.

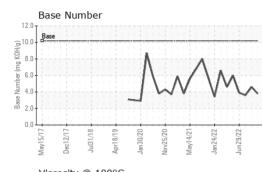


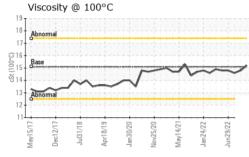


SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089297	GFL0056718	GFL0056595
Sample Date		Client Info		14 Sep 2023	01 May 2023	27 Feb 2023
Machine Age	hrs	Client Info		16661	15619	15242
Oil Age	hrs	Client Info		1042	377	1693
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	14	9	21
Chromium	ppm	ASTM D5185m	>4	2	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	4
Lead	ppm	ASTM D5185m	>30	11	0	22
Copper	ppm	ASTM D5185m	>35	1	1	2
Tin	ppm	ASTM D5185m	>4	2	0	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	12	8
Barium	ppm	ASTM D5185m	5	44	0	0
Molybdenum	ppm	ASTM D5185m	50	53	53	61
Manganese	ppm	ASTM D5185m	0	2	<1	1
Magnesium	ppm	ASTM D5185m	560	558	590	580
Calcium	ppm	ASTM D5185m	1510	1609	1600	1881
Phosphorus	ppm	ASTM D5185m	780	699	743	830
Zinc	ppm	ASTM D5185m	870	975	1026	1057
Sulfur	ppm	ASTM D5185m	2040	2490	3067	2508
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	3	7
Sodium	ppm	ASTM D5185m		9	6	5
Potassium	ppm	ASTM D5185m	>20	3	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.2	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	19.0	28.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	17.0	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.8	4.6	3.6

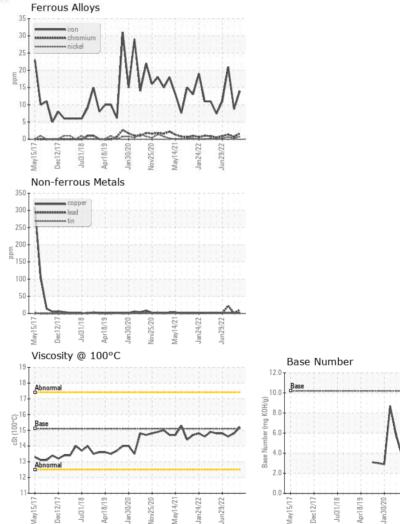


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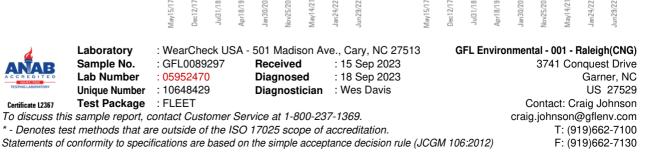




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Visc @ 100°C	cSt	ASTM D445	15.1	15.2	14.8	14.6
GRAPHS						







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