

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 3588C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (48 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.

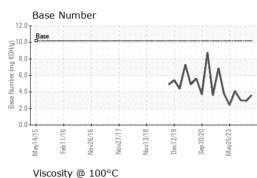
Fluid Condition

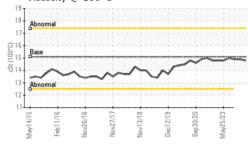
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		y2015 Feb20	16 Nov2016 Nov2017	Nov2018 Dec2019 Sep2020 N	1a/2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094676	GFL0089273	GFL0094700
Sample Date		Client Info		27 Oct 2023	11 Oct 2023	06 Oct 2023
Machine Age	hrs	Client Info		43120	261998	42949
Oil Age	hrs	Client Info		0	201904	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	48	33	38
Chromium	ppm	ASTM D5185m	>4	6	4	4
Nickel	ppm	ASTM D5185m	>2	2	2	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	7	8	1 0
Lead	ppm	ASTM D5185m	>30	7	8	8
Copper	ppm	ASTM D5185m	>35	12	11	12
Tin	ppm	ASTM D5185m	>4	2	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	5	3
Barium	ppm	ASTM D5185m	5	20	0	0
Molybdenum	ppm	ASTM D5185m	50	60	57	62
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	560	558	563	628
Calcium	ppm	ASTM D5185m	1510	1525	1602	1701
Phosphorus	ppm	ASTM D5185m	780	703	692	750
Zinc	ppm	ASTM D5185m	870	924	981	1081
Sulfur	ppm	ASTM D5185m	2040	3118	2330	2676
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	19	19	19
Sodium	ppm	ASTM D5185m		57	47	57
Potassium	ppm	ASTM D5185m	>20	21	15	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.4	12.3	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	26.2	25.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	22.2	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.6	2.9	3.0
	0 0					

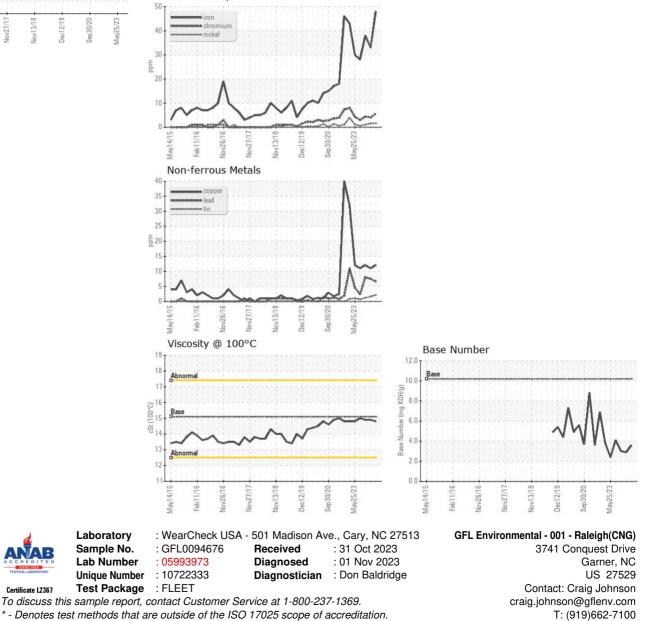


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	14.8	14.9	14.9
GRAPHS						
Ferrous Alloys						



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

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