

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



### Area (YA156399) 830024

2 Natural Gas Engine

Fluid PETRO CANADA DURON GEO LD 15W40 (25 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.

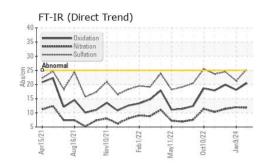
#### Fluid Condition

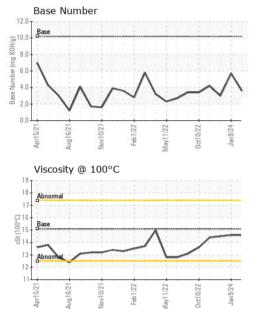
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124238	PCA0101778	PCA0095832
Sample Date		Client Info		12 Jul 2024	09 Jan 2024	28 Aug 2023
Machine Age	hrs	Client Info		8655	7474	6435
Oil Age	hrs	Client Info		1181	1039	1110
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	18	17	16
Chromium	ppm	ASTM D5185m	>4	2	3	3
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	5	4	4
Lead	ppm	ASTM D5185m	>30	5	1	4
Copper	ppm	ASTM D5185m	>35	2	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	8	3
Barium	ppm	ASTM D5185m	5	1	0	0
Molybdenum	ppm	ASTM D5185m	50	56	52	51
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	559	585	565
Calcium	ppm	ASTM D5185m	1510	1715	1605	1665
Phosphorus	ppm	ASTM D5185m	780	726	790	736
Zinc	ppm	ASTM D5185m	870	994	1027	994
Sulfur	ppm	ASTM D5185m	2040	2341	2495	2909
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	6	6
Sodium	ppm	ASTM D5185m	00	4	3	7
Potassium	ppm	ASTM D5185m		2	0	<1
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624		11.8	12.0	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	21.3	24.5
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	18.1	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.6	5.7	3.0



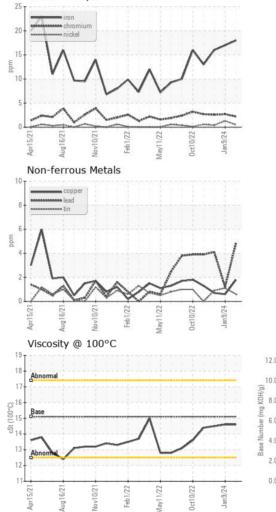
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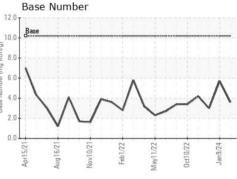




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.6	14.6	14.5
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 002 - Vance-Granville Sample No. : PCA0124238 Received : 15 Jul 2024 241 Vanco Mill Rd Lab Number : 06235539 Tested : 15 Jul 2024 Henderson, NC Unique Number : 11124373 Diagnosed : 15 Jul 2024 - Wes Davis US 27537 Contact: Cameron King Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cameron.king@gflenv.com T: (252)438-5333 \* - 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)

Submitted By: Cameron King

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