

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



(YA113970) 3439C Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (29 QTS)

SAMPLE INFORMATION method

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DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Area

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.

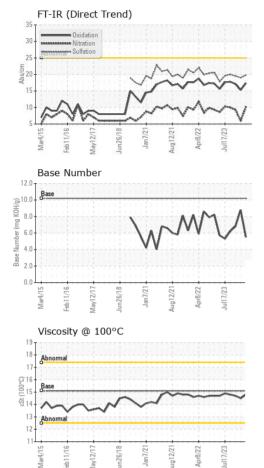
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Sample Number		Client Info		GFL0112904	GFL0098149	GFL0098108
Sample Date		Client Info		24 Apr 2024	07 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		15105	15105	15105
Oil Age	hrs	Client Info		420	568	297
Oil Changed		Client Info		N/A	N/A	N/A
Sample 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	15	5	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	4	2
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>35	2	<1	21
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	48	15
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	51	45	55
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	566	541	592
Calcium	ppm	ASTM D5185m	1510	1640	1351	1598
Phosphorus	ppm	ASTM D5185m	780	707	763	738
Zinc	ppm	ASTM D5185m	870	947	885	989
Sulfur	ppm	ASTM D5185m	2040	2629	2304	2928
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	10	8
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	30	2	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.2	6.0	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.0	19.5
FLUID DEGRA			limit/base	current	history1	history2
FLUID DEGRAD Oxidation Base Number (BN)	DATION Abs/.1mm	method *ASTM D7414 ASTM D2896	>25	current 17.4	history1 15.3	history2 17.1



Mar4/15 Feb11/16

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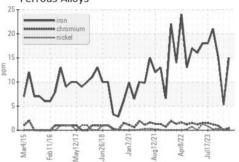
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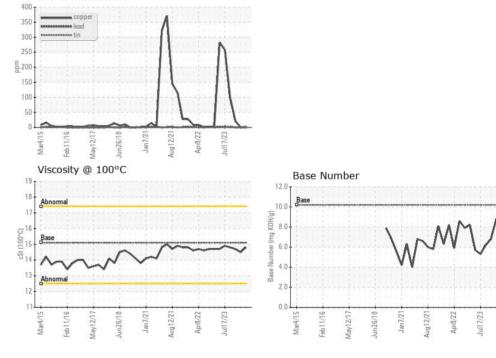
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.8	14.5	14.7
GRAPHS						

Ferrous Alloys

Non-ferrous Metals





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 017 - Durham Sample No. : GFL0112904 Received : 24 Apr 2024 148 Stone Park Court Lab Number : 06158938 Tested : 25 Apr 2024 Durham, NC Unique Number : 10994361 Diagnosed : 25 Apr 2024 - Wes Davis US 27703 Test Package : FLEET Contact: Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bill.waring@wearcheck.com T: (919)596-1363 * - 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) F: (919)598-1852

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Submitted By: Ren - William Russel