

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **3439C** Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

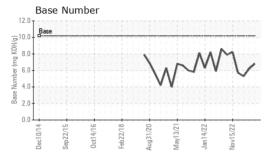
Fluid Condition

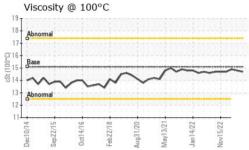
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

29 GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098108	GFL0088538	GFL0088574
Sample Date		Client Info		01 Nov 2023	13 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		15105	15105	15105
Oil Age	hrs	Client Info		297	508	395
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	15	21	18
Chromium	ppm	ASTM D5185m	>4	<1	1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	6
Lead	ppm	ASTM D5185m	>30	<1	1	3
Copper	ppm	ASTM D5185m	>35	21	<u></u> 101	<u>△</u> 258
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	15	11	11
Barium	ppm	ASTM D5185m	5	0	0	1
Molybdenum	ppm	ASTM D5185m	50	55	55	54
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	560	592	634	623
Calcium	ppm	ASTM D5185m	1510	1598	1743	1735
Phosphorus	ppm	ASTM D5185m	780	738	775	770
Zinc	ppm	ASTM D5185m	870	989	1004	1000
Sulfur	ppm	ASTM D5185m	2040	2928	2728	2793
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	9	8
Sodium	ppm	ASTM D5185m		2	7	7
Potassium	ppm	ASTM D5185m	>20	6	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.0	19.6
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.8	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.8	6.2	5.3



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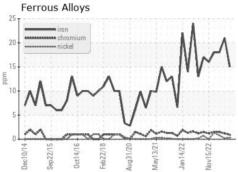


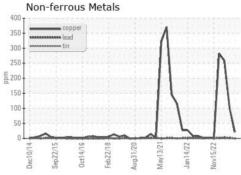


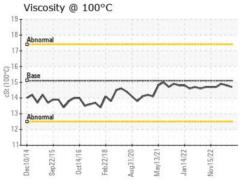
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

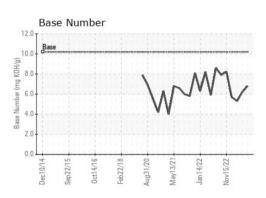
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.8	14.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0098108 : 05997293

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 10725653

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Nov 2023 Diagnosed : 03 Nov 2023 Diagnostician

: Wes Davis

148 Stone Park Court Durham, NC US 27703 Contact: Shane Parks

GFL Environmental - 017 - Durham

shane.parks@gflenv.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)

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Submitted By: Shane Parks

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