

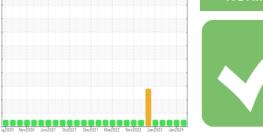
Area (YA156313) Machine Id

Natural Gas Engine

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111035	GFL0098512	GFL0082229
Sample Date		Client Info		08 May 2024	15 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		10504	9585	8239
Oil Age	hrs	Client Info		919	1346	1107
Oil Changed		Client Info		N/A	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	29	22	25
Chromium	ppm	ASTM D5185m	>4	3	3	5
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	3
Lead	ppm	ASTM D5185m	>30	1	2	6
Copper	ppm	ASTM D5185m	>35	1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	22	20
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	56	59
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	546	597	639
Calcium	ppm	ASTM D5185m	1070	1601	1665	1740
Phosphorus	ppm	ASTM D5185m	1150	722	843	847
Zinc	ppm	ASTM D5185m	1270	952	990	1070
Sulfur	ppm	ASTM D5185m	2060	2511	2517	3130
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	22	5	6
				-		7
Sodium	ppm	ASTM D5185m		9	4	/
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	9 2	4 <1	2
			>20 limit/base	•		
Potassium		ASTM D5185m		2	<1	2
Potassium INFRA-RED	ppm	ASTM D5185m method	limit/base	2 current	<1 history1	2 history2
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	2 current 0	<1 history1 0	2 history2 0.1
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	2 current 0 11.3	<1 history1 0 9.1	2 history2 0.1 10.8
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >20 >30	2 current 0 11.3 23.8	<1 history1 0 9.1 20.8	2 history2 0.1 10.8 23.5

830009

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

PETRO CANADA DURON SHP 15W40 (--- GAL)

Wear

Fluid

All component wear rates are normal.

Contamination

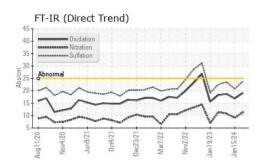
There is no indication of any contamination in the oil.

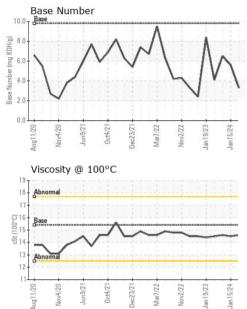
Fluid Condition

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



OIL ANALYSIS REPORT

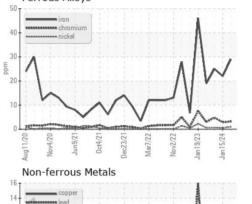


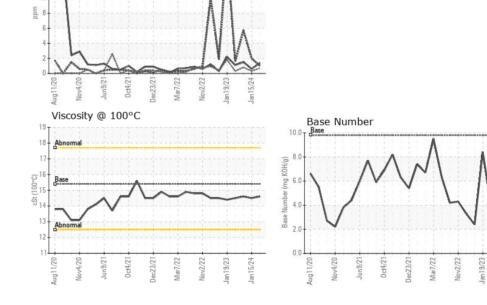


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	15.4	14.6	14.5	14.6
GRAPHS						

Ferrous Alloys

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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 006 - Wilmington Sample No. : GFL0111035 Received : 09 May 2024 3618 US Highway 421 N Lab Number : 06174930 Tested : 10 May 2024 Wilmington, NC US 28401 Unique Number : 11020983 Diagnosed : 13 May 2024 - Sean Felton Test Package : FLEET Contact: Eric Wood Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. eric.wood@gflenv.com T: (717)723-1956 * - 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: (910)762-6880

Submitted By: Eric Wood

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Jan 15/24