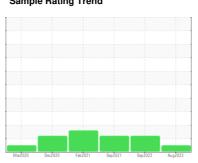


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **257004-271**

Component

Gasoline Engine Fluid

PETRO CANADA DURON ADVANCED 5W30 (--- GAL)

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

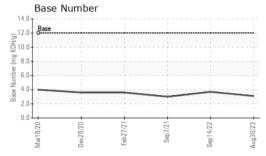
Fluid Condition

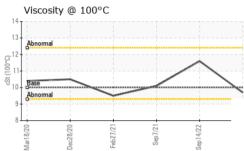
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

60 (GAL)		Mar2020	Dec2020 Feb2021	Sep2021 Sep2022	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0062001	GFL0048393	GFL0031153
Sample Date		Client Info		30 Aug 2023	14 Sep 2022	07 Sep 2021
Machine Age	mls	Client Info		172684	147641	119389
Oil Age	mls	Client Info		6000	6000	10000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	30	42	24
Chromium	ppm	ASTM D5185m	>20	<1	2	1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	6	5	5
Lead	ppm	ASTM D5185m	>50	<1	0	3
Copper	ppm	ASTM D5185m	>155	17	35	40
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	40	17	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	43	121	264	68
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	920	489	498	524
Calcium	ppm	ASTM D5185m	1330	1038	1345	902
Phosphorus	ppm	ASTM D5185m	790	567	671	632
Zinc	ppm	ASTM D5185m	880	690	853	692
Sulfur	ppm	ASTM D5185m	2200	2449	2397	2159
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	11	16	14
Sodium	ppm	ASTM D5185m	>400	6	8	10
Potassium	ppm	ASTM D5185m	>20	<1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	15.0	21.6	17
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	32.0	30.5
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.3	36.4	31.2
Base Number (BN)	mg KOH/g	ASTM D2896	12.0	3.1	▲ 3.7	△ 3



OIL ANALYSIS REPORT

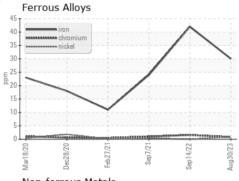


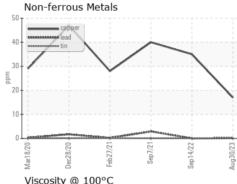


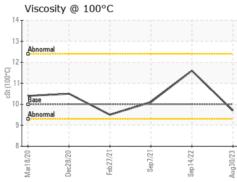
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

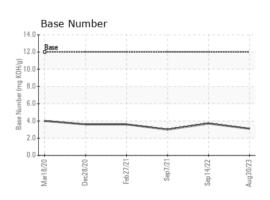
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	10.0	9.7	11.6	10.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10634784 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0062001 : 05944172

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

Received Diagnosed

: 06 Sep 2023 : 08 Sep 2023 Diagnostician : Sean Felton

GFL Environmental - 656 - Culpeper Hauling

15490 Montanus Drive Culpeper, VA US 22701 Contact: Matt Hanna mhanna@gflenv.com

T: (540)727-0887

* - 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)