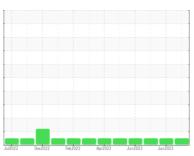


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



732008

Component

Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

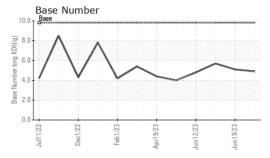
Fluid Condition

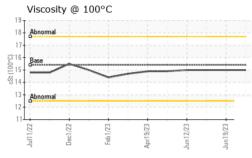
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jul2022	Dec2022 Feb2023	Apr2023 Jun2023 Ju	in2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084648	GFL0084741	GFL0084717
Sample Date		Client Info		12 Oct 2023	19 Jun 2023	15 Jun 2023
Machine Age	mls	Client Info		88750	46503	46219
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	30	23
Chromium	ppm	ASTM D5185m	>4	1	4	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		1	3	2
Lead	ppm	ASTM D5185m	>30	- <1	13	9
Copper	ppm	ASTM D5185m		1	3	2
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m	24	0	0	0
Cadmium		ASTM D5185m		<1	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	14	14
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	60	52	73	66
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	1010	524	911	814
Calcium	ppm	ASTM D5185m	1070	1581	2087	1986
Phosphorus	ppm	ASTM D5185m	1150	651	1053	960
Zinc	ppm	ASTM D5185m	1270	857	1388	1287
Sulfur	ppm	ASTM D5185m	2060	2091	3403	3298
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	7	6
Sodium	ppm	ASTM D5185m		8	8	7
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.6	12.8	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	29.6	26.6
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	23.9	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.9	5.1	5.7
(211)						



OIL ANALYSIS REPORT

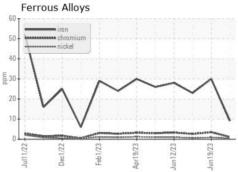


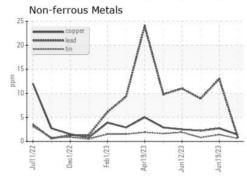


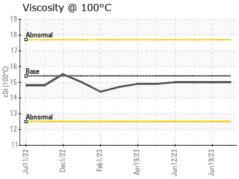
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

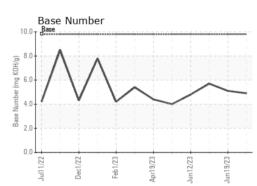
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	15.0	15.0

GRAPHS













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084648 : 05980223 : 10697518

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

Received Diagnosed

: 16 Oct 2023 : 18 Oct 2023 Diagnostician : Angela Borella GFL Environmental - 856 - Houston South 8515 Highway 6 South

Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com T:

* - 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: