

OIL ANALYSIS REPORT

Sample Rating Trend

Augžū19 Augžū19 Dezčū20 Jančū22 Apzčū23 Junčū23 Segžū23 Nezčū23 Jančū24





929093-260366

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

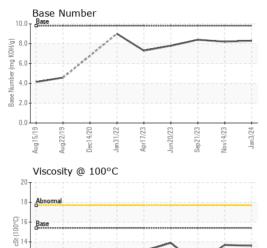
Fluid Condition

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

Augūti 9 Augūti 9 Decūto Janūtoz Aprūtoz Sapūtoz Sapūtoz Sapūtoz Janūtoz Sapūtoz Novūtoz Janūtoz -						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098326	GFL0098309	GFL0079335
Sample Date		Client Info		03 Jan 2024	14 Nov 2023	21 Sep 2023
Machine Age	hrs	Client Info		11470	11124	10810
Oil Age	hrs	Client Info		700	700	700
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	11	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	48
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	57	27
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1009	990	772
Calcium	ppm	ASTM D5185m	1070	1063	1070	1198
Phosphorus	ppm	ASTM D5185m	1150	1079	1078	841
Zinc	ppm	ASTM D5185m	1270	1322	1288	1000
Sulfur	ppm	ASTM D5185m	2060	3204	3067	2885
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	8
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.5	18.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	14.6	13.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	8.2	8.4
. ,	0					



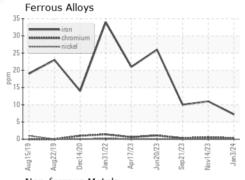
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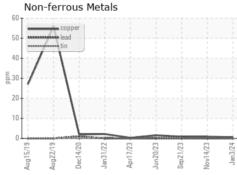


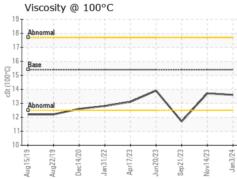
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

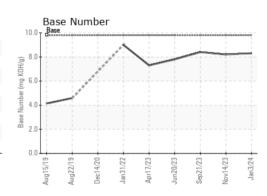
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	▲ 11.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10845601 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098326 : 06068924

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

Recieved : 23 Jan 2024 : 24 Jan 2024 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street

Springfield, MO US 65807 Contact: Dennis Moore dennis.moore@gflenv.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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