

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **429102**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (11 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.

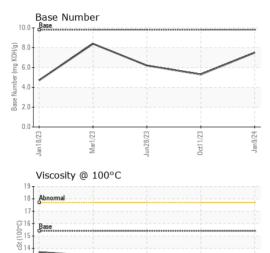
GAL)		Jan2023	Mar2023	Jun2023 Oct2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072106	GFL0072159	GFL0072192
Sample Date		Client Info		09 Jan 2024	11 Oct 2023	28 Jun 2023
Machine Age	hrs	Client Info		17860	600	16661
Oil Age	hrs	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	>90	29	50	25
Chromium	ppm	ASTM D5185m	>20	2	3	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	<1
Lead	ppm	ASTM D5185m	>40	4	6	1
Copper	ppm	ASTM D5185m	>330	9	13	12
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	5	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	62	66
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	895	918	1005
Calcium	ppm	ASTM D5185m	1070	1013	1068	1156
Phosphorus	ppm	ASTM D5185m	1150	1019	1045	1053
Zinc	ppm	ASTM D5185m	1270	1171	1272	1304
Sulfur	ppm	ASTM D5185m	2060	3052	2816	3651
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	6
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	3	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	1.5	1.2
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.9	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	23.0	22.5
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.5	18.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	5.3	6.2
(2.1)	339					



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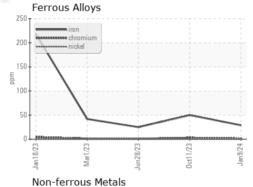


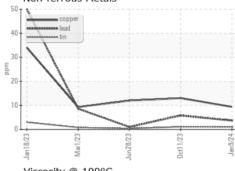
Oct11/23

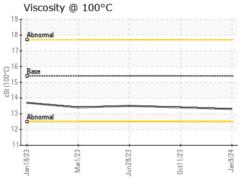
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

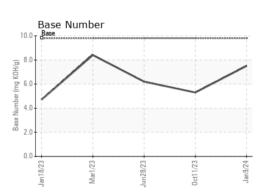
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	13.5

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10830032 Test Package : FLEET

: GFL0072106 : 06058650

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed

: 12 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 094 - Cedartown

2097 Buchanan Highway Cedartown, GA US 30125

Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618

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

* - 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)