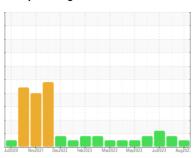


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **728008**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (12 QTS)

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.

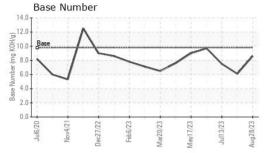
Fluid Condition

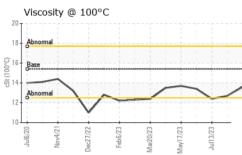
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Jul2020 No	v2021 Dec2022 Feb20	23 Mar2023 May2023 Jul20	23 Aug202:	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069157	GFL0069123	GFL0069187
Sample Date		Client Info		28 Aug 2023	09 Aug 2023	13 Jul 2023
Machine Age	hrs	Client Info		11377	11272	11105
Oil Age	hrs	Client Info		105	779	612
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	▲ 4.5	▲ 4.4
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	38	26
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	6	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	4	3
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	64	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	846	895	861
Calcium	ppm	ASTM D5185m	1070	989	1061	1044
Phosphorus	ppm	ASTM D5185m	1150	950	922	954
Zinc	ppm	ASTM D5185m	1270	1128	1170	1136
Sulfur	ppm	ASTM D5185m	2060	2997	2564	2818
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	9	8
Sodium	ppm	ASTM D5185m		<1	6	2
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	10.2	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	20.9	19.0
FLUID DEGRAI	AOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	18.6	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	6.1	7.5



OIL ANALYSIS REPORT

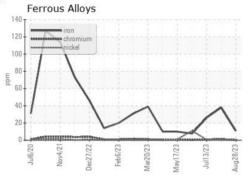


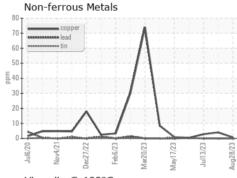


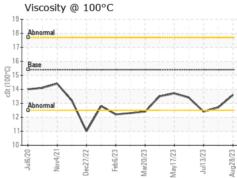
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

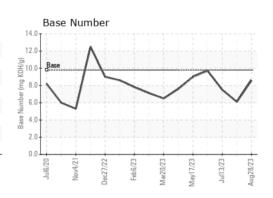
FLUID FROF		memou			HISTORY	1115101 y2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	12.7	<u> </u>

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10630084

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0069157 : 05939472

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

Received : 31 Aug 2023 Diagnosed : 01 Sep 2023 Diagnostician : Wes Davis

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

GFL Environmental - 073 - Warner Robins - Transwaste

jmaloney@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: