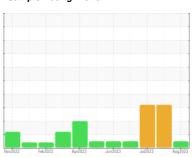


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **223032-2**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Take a sample due to dirt level)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

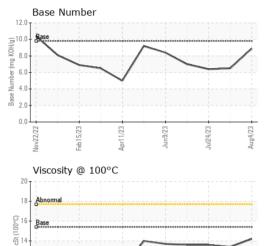
Fluid Condition

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

GAL)		Nov2022	Feb2023 Apr2023	Jun2023 Jul2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087834	GFL0087836	GFL0087816
Sample Date		Client Info		04 Aug 2023	28 Jul 2023	24 Jul 2023
Machine Age	hrs	Client Info		19128	19087	229059
Oil Age	hrs	Client Info		20	600	221425
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	32	<u></u> 132	<u> </u>
Chromium	ppm	ASTM D5185m	>20	2	6	5
Nickel	ppm	ASTM D5185m	>4	<1	3	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	3	4
Aluminum	ppm	ASTM D5185m	>20	5	<u>^</u> 23	<u>^</u> 22
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	8	10
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	2	3	3
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	63	83	83
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	1010	958	1058	1138
Calcium	ppm	ASTM D5185m	1070	1016	1141	1220
Phosphorus	ppm	ASTM D5185m	1150	1033	1096	1168
Zinc	ppm	ASTM D5185m	1270	1251	1383	1475
Sulfur	ppm	ASTM D5185m	2060	3643	3342	3652
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	A 34	▲ 32
Sodium	ppm	ASTM D5185m		15	73	69
Potassium	ppm	ASTM D5185m	>20	2	6	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.8	11.3	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	22.2	21.9
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	20.2	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	6.5	6.4
Dage Hamber (DIV)	ing North	7.0 TW D2000	0.0	0.0	0.0	0.4



OIL ANALYSIS REPORT

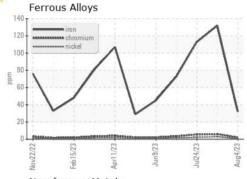


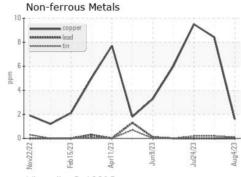
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

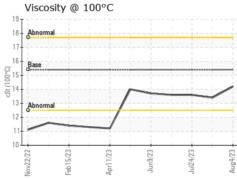
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.4	13.6

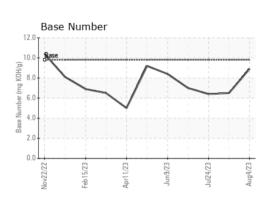
GRAPHS

Jul24/23













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10591552

: GFL0087834 : 05919638 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 09 Aug 2023 : 10 Aug 2023 Diagnostician : Don Baldridge GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: DEAN PEACE JR

dean.peace@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: