

OIL ANALYSIS REPORT

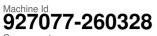
FLl Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.8

Sample Rating Trend





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.

AL)					
•		62019 Apr2019 Apr2020 Mar2	2022 Sep2022 Nov2022 Dec2022 May	2023 Jun2023	history O
SAMPLE INFORMA		limit/base		history1	history2
Sample Number	Client Info		GFL0083410	GFL0083504	GFL0065192
Sample Date	Client Info		29 Jun 2023	31 May 2023	19 Dec 2022
Machine Age hrs			35949	35872	238996
Oil Age hrs			35949	35872	0
Oil Changed	Client Info		Changed	Changed	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL
CONTAMINATION	N method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG
WEAR METALS	method	limit/base	current	history1	history2
Iron pp	ASTM D5185m	>100	10	40	15
Chromium pp	ASTM D5185m	>20	<1	1	<1
Nickel pp	ASTM D5185m	>4	0	0	0
Titanium pp	ASTM D5185m		<1	0	0
Silver pp	ASTM D5185m	>3	0	0	0
Aluminum pp	ASTM D5185m	>20	<1	3	2
Lead pp	ASTM D5185m	>40	3	10	<1
Copper pp	ASTM D5185m	>330	<1	1	<1
Tin pp	ASTM D5185m	>15	<1	<1	<1
Vanadium pp	ASTM D5185m		<1	0	0
Cadmium pp	ASTM D5185m		0	0	0
ADDITIVES	method	limit/base	current	history1	history2
Boron pp	ASTM D5185m	0	0	2	5
Barium pp	ASTM D5185m	0	0	0	0
Molybdenum pp	ASTM D5185m	60	59	64	61
Manganese pp	ASTM D5185m	0	<1	<1	<1
Magnesium pp	ASTM D5185m	1010	1001	956	939
Calcium pp	ASTM D5185m	1070	1113	1124	1071
Phosphorus pp	ASTM D5185m	1150	1031	1054	1045
Zinc pp	ASTM D5185m	1270	1263	1263	1208
Sulfur pp	ASTM D5185m	2060	3652	3105	3492
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon pp	ASTM D5185m	>25	3	6	4
	ASTM D5185m		5	3	2
Potassium pp	ASTM D5185m	>20	3	1	0
INFRA-RED	method	limit/base	current	history1	history2
Soot % %	*ASTM D7844	>3	0.5	1.5	0.7
Nitration Ab	s/cm *ASTM D7624	>20	7.7	12.9	8.8
	s/.1mm *ASTM D7415		19.2	26.5	21.4
FLUID DEGRADAT	FION method	limit/base	current	history1	history2

15.0

8.4

16.6

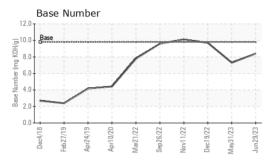
9.7

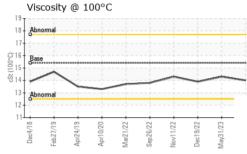
21.9

7.3

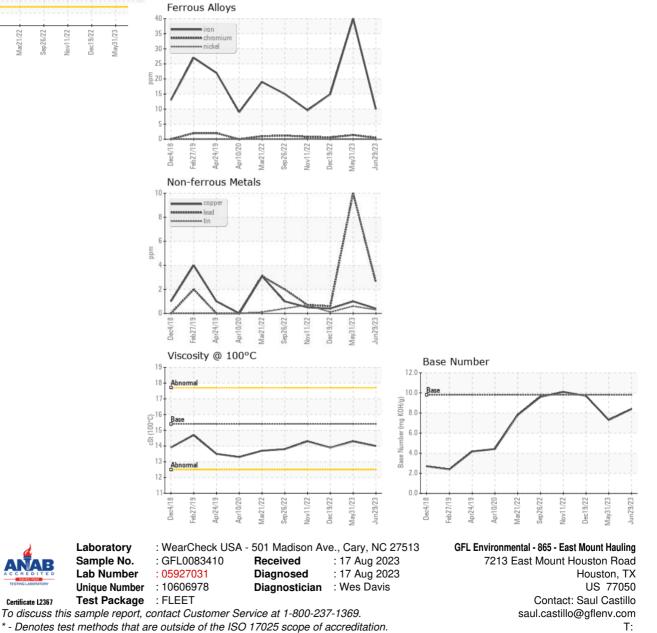


OIL ANALYSIS REPORT





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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.3	13.9
GRAPHS						





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

F: