

OIL ANALYSIS REPO

SAMPLE INFORM Sample Number

CONTAMINAT

WEAR METALS

Sample Date

Machine Age

Oil Changed Sample Status

Oil Age

Fuel

Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium

Glycol



426038-722 Component

Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample)

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.

RT	Samp	le Rating Tre	nd	N	ORMAL
	Maž221 Nev	2011 Headour Maybour	Junžozz Dezőozz Novčozz Marko		
MATION	method	limit/base	current	history1	history2
hrs hrs	Client Info Client Info Client Info Client Info		GFL0062249 12 Sep 2023 16725 808 Not Changd NORMAL	GFL0062173 15 Mar 2023 16442 716 Not Changd NORMAL	GFL0061899 02 Nov 2022 15917 300 Changed NORMAL
ION	method	limit/base	current	history1	history2
	WC Method WC Method	>5	<1.0 NEG	<1.0 NEG	<1.0 NEG
S	method	limit/base	current	history1	history2
ppm ppm	ASTM D5185m ASTM D5185m	>100 >20	11 <1	14 <1	11 <1
ppm	ASTM D5185m	>4	<1	0	0
ppm	ASTM D5185m		0	0	0
ppm	ASTM D5185m	>3	0	0	0
ppm	ASTM D5185m ASTM D5185m	>20 >40	2	2	1
ppm ppm	ASTM D5185m ASTM D5185m	>40	2 <1	3 <1	3
ppm	ASTM D5185m	>15	<1	<1	<1
ppm	ASTM D5185m		0	0	0
ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	63	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	966	922	881
Calcium	ppm	ASTM D5185m	1070	1150	1163	1120
Phosphorus	ppm	ASTM D5185m	1150	1064	1029	1011
Zinc	ppm	ASTM D5185m	1270	1293	1234	1228
Sulfur	ppm	ASTM D5185m	2060	3153	2952	3406
CONTAMINAN	JTS	method	limit/base	current	historv1	history2

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Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		4	0	<1
Potassium	ppm	ASTM D5185m	>20	2	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.4	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.0	20.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.1	16
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.3	7.9	9



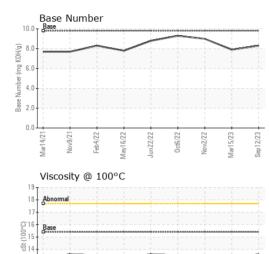
13 - Abnorma 12 -

Jov9/21

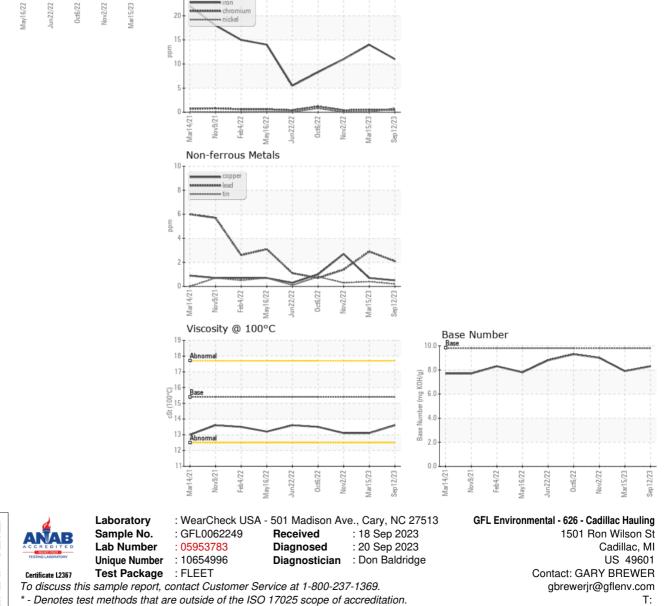
Mar14/21

Feb4/22

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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.1	13.1
GRAPHS						
Ferrous Alloys						
iron chromium						
nickel						



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

Submitted By: GARY BREWER

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