

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



428033-402325 **Diesel Engine**

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

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Fuel

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

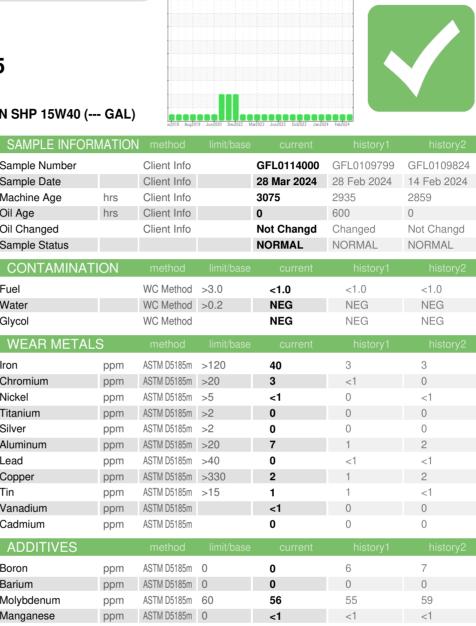
Copper

Vanadium

Titanium

Aluminum

Chromium



oil. Fluid Condition

Contamination

DIAGNOSIS

Recommendation

Wear

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

There is no indication of any contamination in the

Resample at the next service interval to monitor.

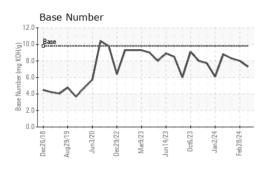
All component wear rates are normal.

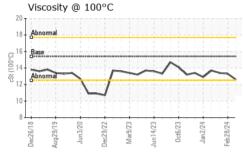
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	6	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	55	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	935	872	905
Calcium	ppm	ASTM D5185m	1070	1101	1030	1056
Phosphorus	ppm	ASTM D5185m	1150	1038	983	1001
Zinc	ppm	ASTM D5185m	1270	1258	1230	1253
Sulfur	ppm	ASTM D5185m	2060	3571	2970	3111
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	6	6
Sodium	ppm	ASTM D5185m		6	1	2
Potassium	ppm	ASTM D5185m	>20	9	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	6.9	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	17.6	17.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	14.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	8.0	8.3
4:34:18) Rev: 1		Contact/Loc	cation: GFL82	23,834,836,837	7,840 - Loyce Ste	wart - GFL836

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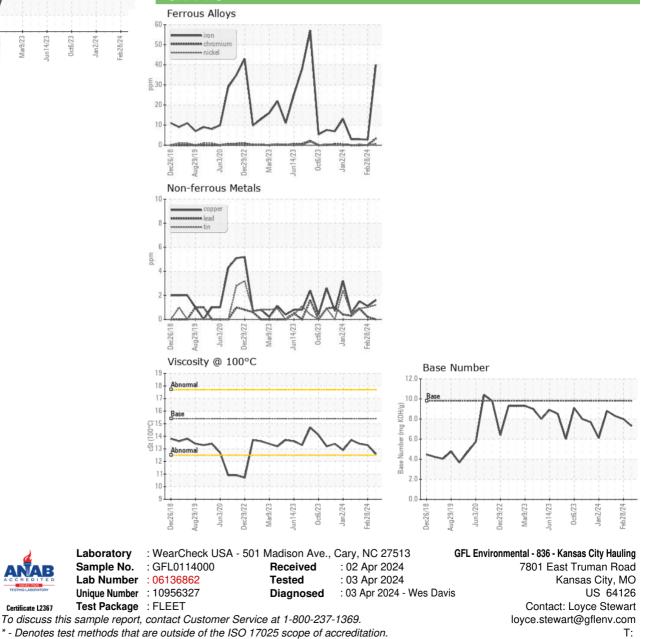


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.6	13.3	13.4
GRAPHS						



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

Certificate L2367

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836 Page 2 of 2

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