

OIL ANALYSIS REPORT





NORMAL

Machine Id 924010-544

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (28 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

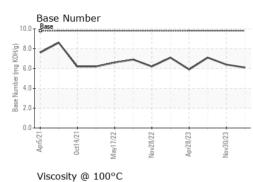
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

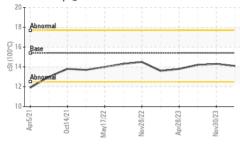
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110357	GFL0102794	GFL0090537
Sample Date		Client Info		14 Feb 2024	30 Nov 2023	11 Sep 2023
Machine Age	hrs	Client Info		25445	25445	25445
Oil Age	hrs	Client Info		600	520	520
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
		ASTM D5185m	>100	52	33	28
Iron	ppm			3	2	20
Chromium	ppm	ASTM D5185m	>20			0
Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>4	<1 2	<1 0	0 <1
	ppm		0			<1
Silver Aluminum	ppm	ASTM D5185m	>3	0 11	0 9	4
	ppm	ASTM D5185m	>20			4
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	24	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	69	70
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	920	1036	1084
Calcium	ppm	ASTM D5185m	1070	1156	1162	1288
Phosphorus	ppm	ASTM D5185m	1150	1016	1181	1149
Zinc	ppm	ASTM D5185m	1270	1229	1424	1384
Sulfur	ppm	ASTM D5185m	2060	2770	3207	3667
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	7
Sodium	ppm	ASTM D5185m		9	7	10
Potassium	ppm	ASTM D5185m	>20	1	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	14.1	12.8	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	25.3	23.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	22.8	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	6.4	7.1

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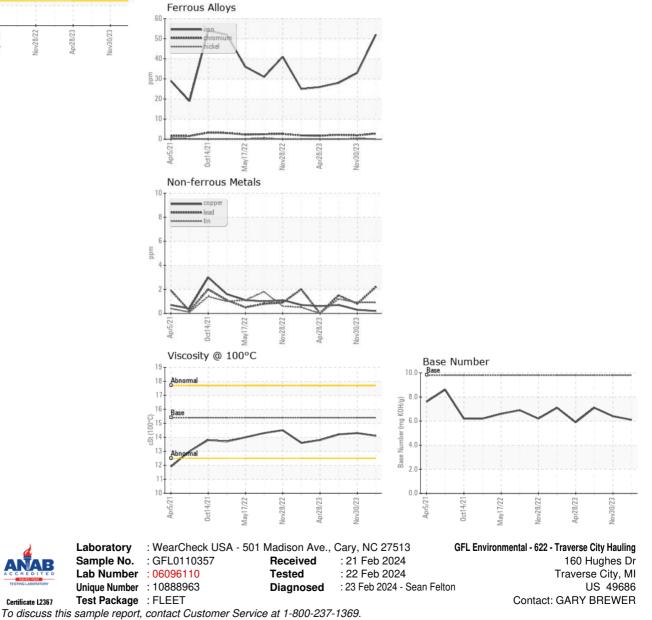


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.1	14.3	14.2
GRAPHS						





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* - 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)

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

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