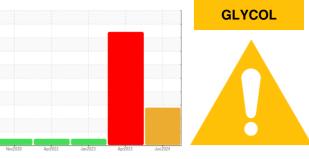


Area Charlestown

OIL ANALYSIS REPORT

Sample Rating Trend



Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

654

The copper level is abnormal. The aluminum level is marginal.

Contamination

Sodium and/or potassium levels remain elevated. Test for glycol is negative.

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122827	PCA0083232	PCA0078134
Sample Date		Client Info		17 Jun 2024	27 Apr 2023	10 Jan 2023
Machine Age	mls	Client Info		371785	0	288046
Oil Age	mls	Client Info		0	0	18000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS method limit/base current history1 history						history2
Iron	ppm	ASTM D5185m	>200	30	10	16
Chromium	ppm	ASTM D5185m		3	1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<u> </u>	1	9
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>30	<u> </u>	6	4
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	2	2	1	2
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	50	60	86	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	915	887	944
Calcium	ppm	ASTM D5185m	1050	1078	984	1166
Phosphorus	ppm	ASTM D5185m	995	892	990	1042
Zinc	ppm	ASTM D5185m	1180	1194	1166	1281
Sulfur	ppm	ASTM D5185m	2600	2399	3023	3485
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	4	5
Sodium	ppm	ASTM D5185m		23	470	14
Potassium	ppm	ASTM D5185m	>20	4 7	▲ 532	26
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.0	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	17.1	19.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	13.0	14.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.61	11.59	8.87



OIL ANALYSIS REPORT

limit/base

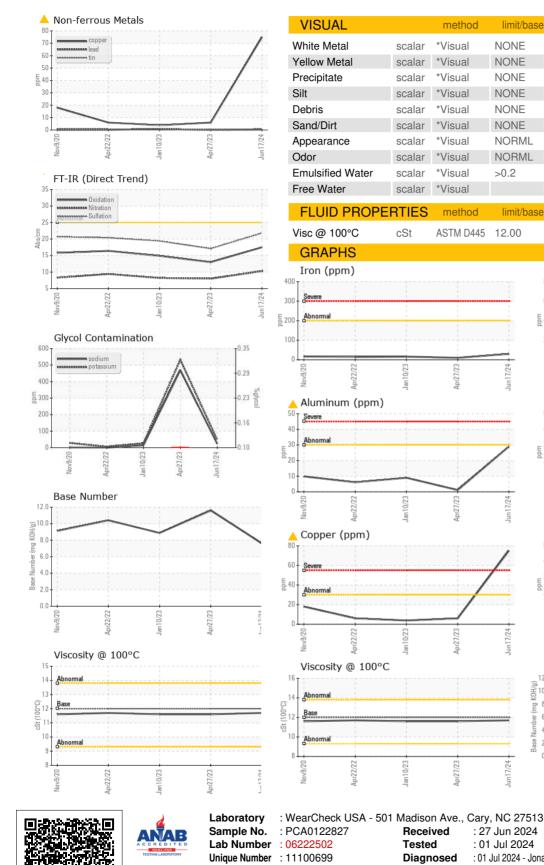
NONE

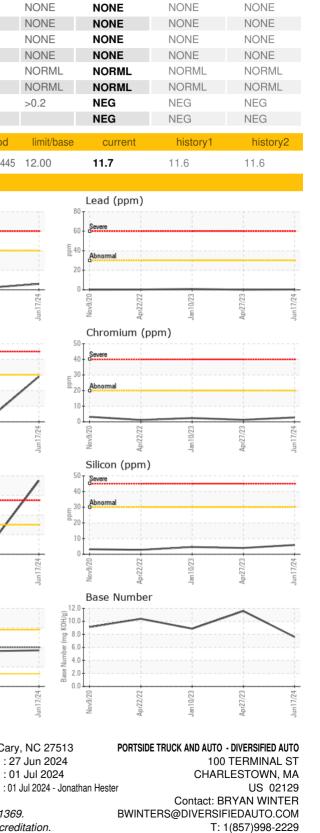
NONE

current

NONE

NONE





history1

NONE

NONE

history2

NONE

NONE

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

Test Package : MOB 2

* - 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)

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Certificate 12367

Submitted By: BRYAN WINTER

E: