

## **OIL ANALYSIS REPORT**

Sample Rating Trend





### Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

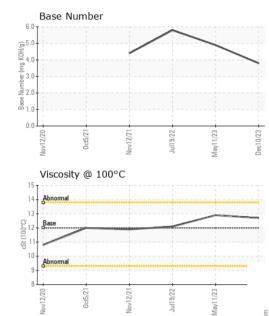
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

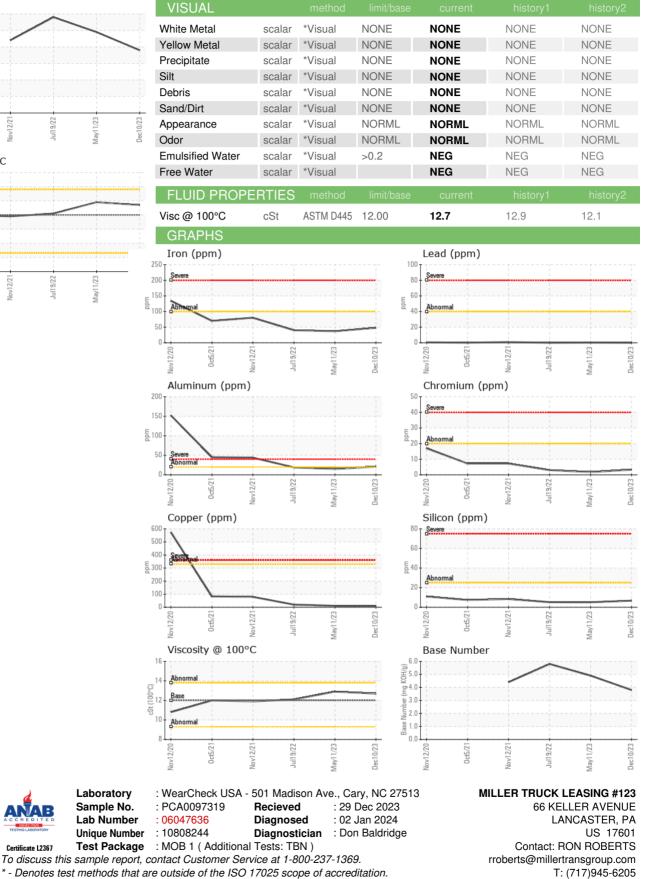
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097319	PCA0083841	PCA0071749
Sample Date		Client Info		10 Dec 2023	11 May 2023	19 Jul 2022
Machine Age	mls	Client Info		261537	206654	158657
Oil Age	mls	Client Info		54883	47997	45071
Oil Changed		Client Info		Changed	Changed	Changed
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
Iron	ppm	ASTM D5185m	>100	48	37	40
Chromium	ppm	ASTM D5185m	>20	3	2	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		9	63	5
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	21	15	19
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	10	11	20
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	14	11
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	50	64	31	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	1050	599	885
Calcium	ppm	ASTM D5185m	1050	1314	1639	1159
Phosphorus	ppm	ASTM D5185m	995	1236	1070	904
Zinc	ppm	ASTM D5185m	1180	1425	1243	1158
Sulfur	ppm	ASTM D5185m	2600	3052	3524	2504
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	5
Sodium	ppm	ASTM D5185m		5	0	3
Potassium	ppm	ASTM D5185m	>20	31	21	27
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.3	1.4	1.3
Nitration	Abs/cm	*ASTM D7624	>20	14.7	13.3	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.9	31.0	28.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.5	26.3	24.1
Base Number (BN)	mg KOH/g	ASTM D2896		3.8	4.9	5.8
2:00:22) Pov: 1						

Contact/Location: RON ROBERTS - MILLAN



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

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: RON ROBERTS - MILLAN

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