

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 434U Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- 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.

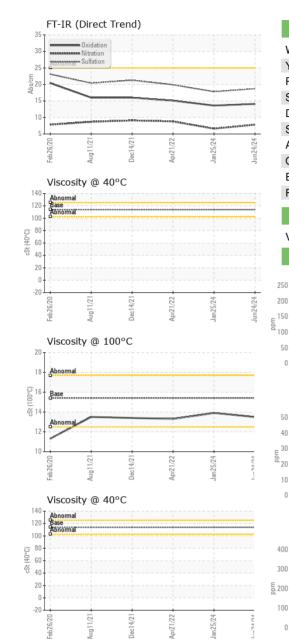
### Fluid Condition

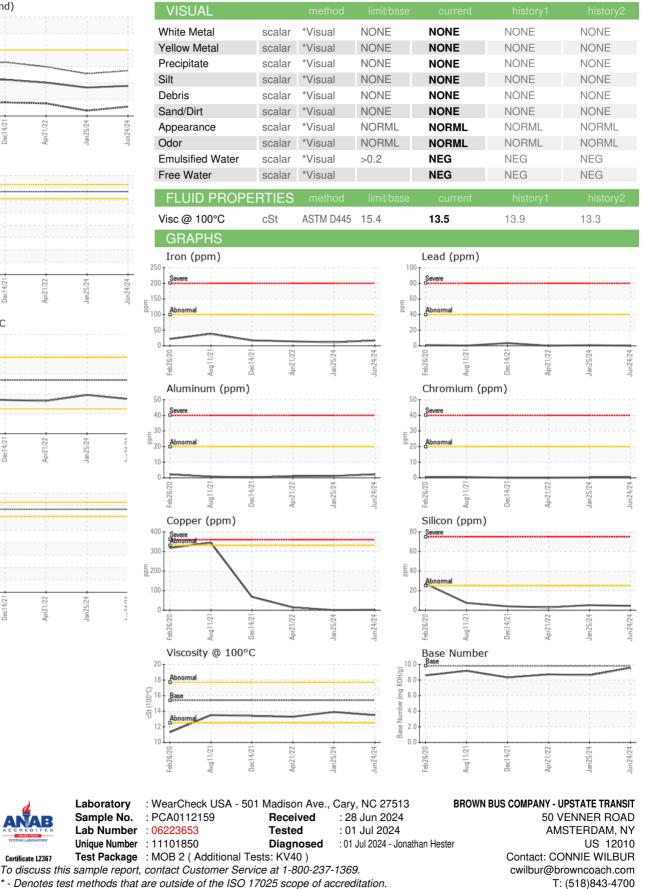
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112159	PCA0111554	PCA0076583
Sample Date		Client Info		24 Jun 2024	25 Jan 2024	21 Apr 2022
Machine Age	mls	Client Info		142061	123687	54516
Oil Age	mls	Client Info		18374	9468	12570
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		ASTM D5185m	>100	17	11	14
Chromium	ppm ppm	ASTM D5185m	>20	<1	<1	0
Nickel		ASTM D5185m	>20	1	<1	4
Titanium	ppm	ASTM D5185m	>4	۱ <1	<1	0
Silver	ppm	ASTM D5185m	>3		0	0
Aluminum	ppm	ASTM D5185m	>3	<1 2	1	1
Lead	ppm	ASTM D5185m	>20	0	<1	0
	ppm	ASTM D5185m	>330	2	<1	14
Copper Tin	ppm	ASTM D5185m	>330	0	1	0
Vanadium	ppm	ASTM D5185m	>15	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	3	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	59
Manganese	ppm		0	1	<1	0
Magnesium	ppm	ASTM D5185m	1010	917	1122	936
Calcium	ppm	ASTM D5185m	1070	1172	1329	1017
Phosphorus	ppm	ASTM D5185m	1150	1040	1139	974
Zinc	ppm	ASTM D5185m	1270	1227	1555	1229
Sulfur	ppm	ASTM D5185m	2060	3578	3748	3292
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	3
Sodium	ppm	ASTM D5185m		4	<1	<1
Potassium	ppm	ASTM D5185m	>20	5	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration		*ACTM D7004	>20	70	6.6	8.8
Huddon	Abs/cm	*ASTM D7624	220	7.8	0.0	0.0
Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>30	7.8 18.7	17.8	19.9
	Abs/.1mm	*ASTM D7415				
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.8	19.9
Sulfation	Abs/.1mm	*ASTM D7415 method	>30 limit/base	18.7 current	17.8 history1	19.9 history2



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

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Certificate 12367

cSt (100°C)

Laboratory

Sample No.

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