

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Area (UE3455) Charlestown Machine Id 706

Component Diesel Engine

### 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.

Fluid

#### 📥 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

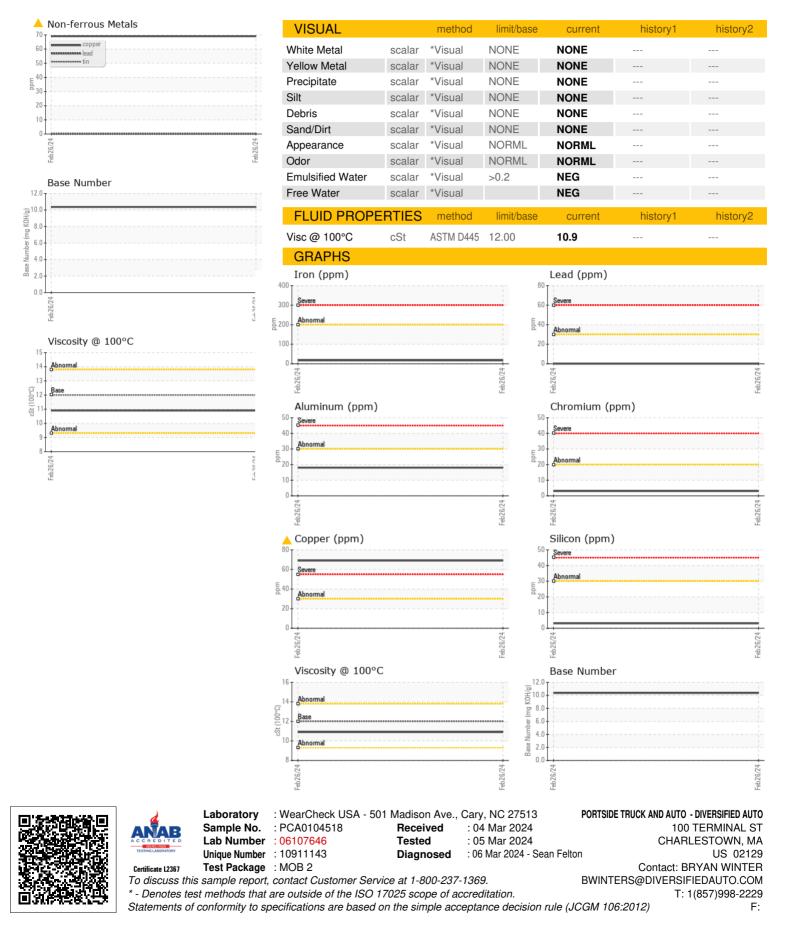
#### Fluid Condition

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

N SHP 10W30 (	GAL)			eb2024		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104518		
Sample Date		Client Info		26 Feb 2024		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
<sup>=</sup> uel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	17		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>2	0		
Fitanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m		18		
ead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m		<u> </u>		
Fin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	60		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	925		
Calcium	ppm	ASTM D5185m	1050	1052		
Phosphorus	ppm	ASTM D5185m	995	947		
Zinc	ppm	ASTM D5185m	1180	1203		
Sulfur	ppm	ASTM D5185m	2600	2090		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3		
Sodium	ppm	ASTM D5185m		2		
		ASTM D5185m	>20	33		
Potassium	ppm	ASTIVI DSTOSIII	200	••		
Potassium	ррп	method	limit/base	current	history1	history2
INFRA-RED	ppm %				history1	history2
INFRA-RED		method	limit/base >3	current		
	%	method *ASTM D7844	limit/base >3 >20	current 0.5		
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >3 >20	current 0.5 8.3		
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	current 0.5 8.3 19.7		



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