

# **OIL ANALYSIS REPORT**



Machine Id 433197

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- QTS)

# DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## 🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

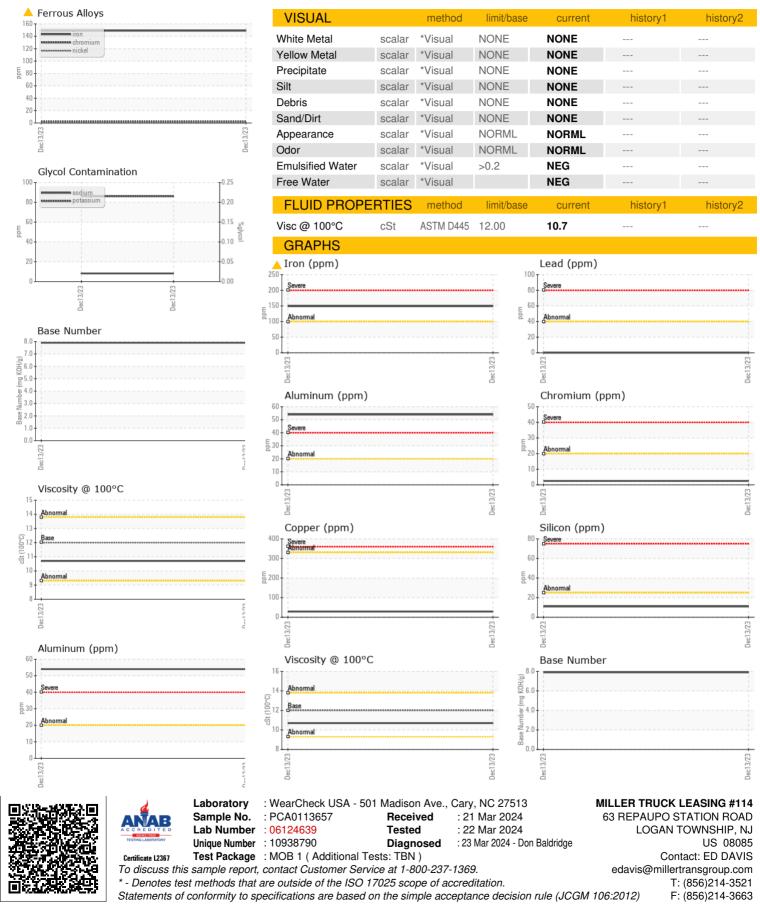
### Fluid Condition

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.

ITS)				Dec2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113657		
Sample Date		Client Info		13 Dec 2023		
	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	;	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	54		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	29		
Гin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	13		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	51		
Manganese	ppm	ASTM D5185m	0	10		
Magnesium	ppm	ASTM D5185m	950	655		
Calcium	ppm	ASTM D5185m	1050	1839		
Phosphorus	ppm	ASTM D5185m	995	889		
	ppm	ASTM D5185m	1180	1116		
Sulfur	ppm	ASTM D5185m	2600	2906		
CONTAMINANT	S	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	11		
	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	86		
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.9		
	Abs/cm	*ASTM D7624	>20	13.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	24.7		



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Contact/Location: ED DAVIS - MILLOG