

# **OIL ANALYSIS REPORT**

Sample Rating Trend SOOT

Machine Id **721040** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- 0

## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted.

#### Wear

All component wear rates are normal.

## Contamination

Light concentration of carbon/soot present in the oil.

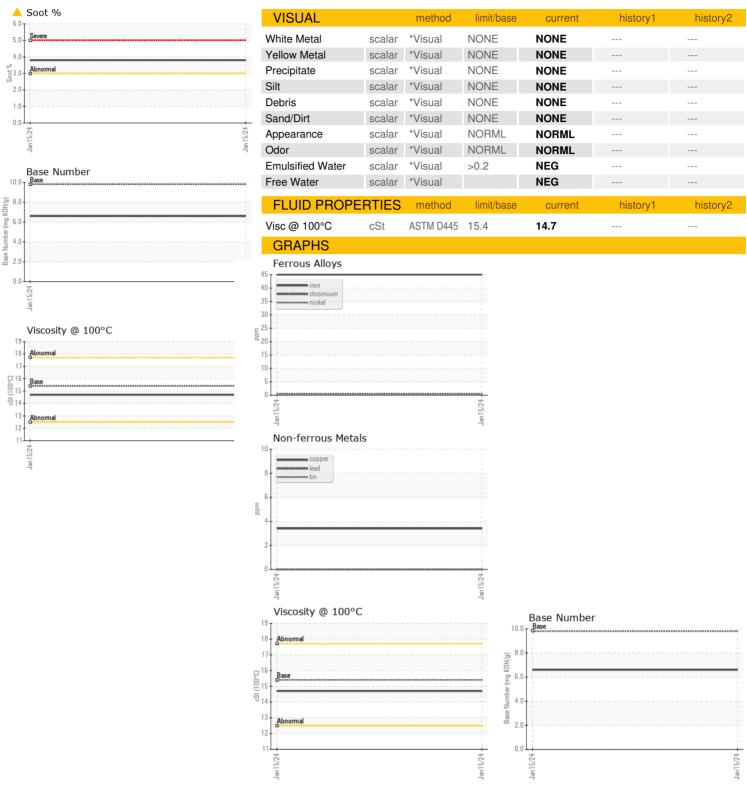
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

AL)				Jan 2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093837		
Sample Date		Client Info		15 Jan 2024		
Machine Age	hrs	Client Info		19031		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	<b>;</b>	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	45		
	ppm	ASTM D5185m	>20	<1		
	ppm	ASTM D5185m	>4	<1		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	>3	<1		
	ppm	ASTM D5185m	>20	6		
	ppm	ASTM D5185m	>40	0		
	ppm	ASTM D5185m		3		
	ppm	ASTM D5185m	>15	0		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3		
	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	59		
	ppm	ASTM D5185m	0	1		
	ppm	ASTM D5185m	1010	933		
-	ppm	ASTM D5185m	1070	999		
	ppm	ASTM D5185m	1150	979		
Zinc	ppm	ASTM D5185m	1270	1253		
Sulfur	ppm	ASTM D5185m	2060	2953		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>▲ 3.8</b>		
	Abs/cm	*ASTM D7624		15.3		
	Abs/.1mm	*ASTM D7415		25.5		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6		
	mg KOH/g	ASTM D2896	9.8	6.6		
Dago (Marridor (DIV)	my Northy	7.0 TW D2000	0.0	0.0		



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Laboratory Sample No. Lab Number Unique Number

: GFL0093837 : 06067350 : 10844027

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024 Diagnosed

: 23 Jan 2024 Diagnostician : Wes Davis

Test Package : FLEET ( Additional Tests: FuelDilution ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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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