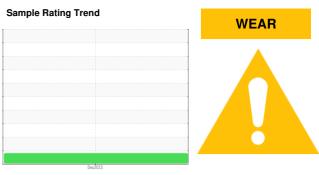


# **OIL ANALYSIS REPORT**

# (65640Z) Walgreens - Tractor Machine Id [Walgreens - Tractor] 136A624109

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



## **DIAGNOSIS**

## Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 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).

#### 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. There is no indication of any contamination in the oil.

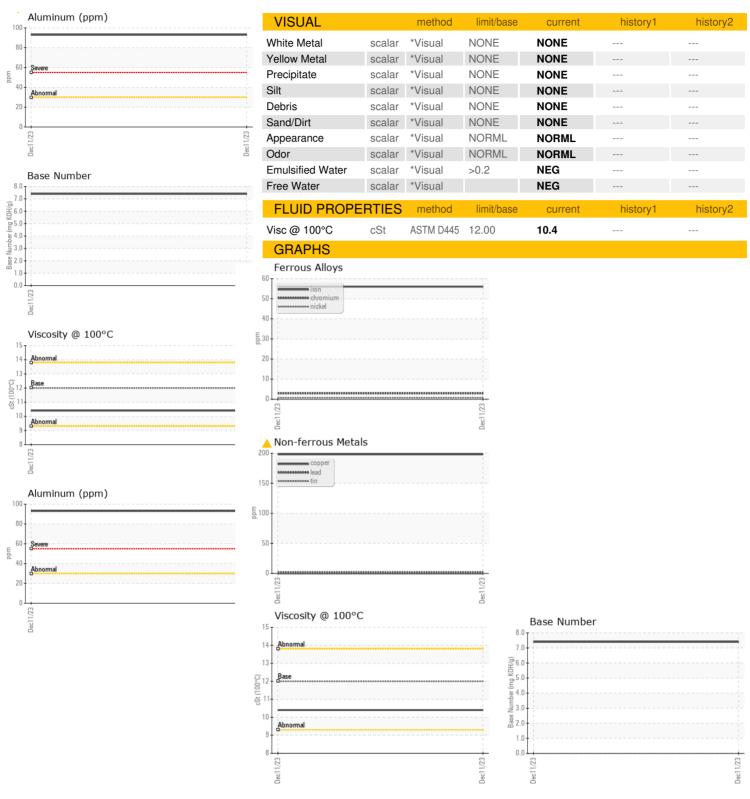
#### **Fluid Condition**

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.

GAL)				Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103686		
Sample Date		Client Info		11 Dec 2023		
Machine Age	hrs	Client Info		38017		
Oil Age	hrs	Client Info		38017		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	56		
Chromium	ppm	ASTM D5185m	>5	3		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	93		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	<u> </u>		
Tin	ppm	ASTM D5185m	>5	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	35		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	54		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	950	544		
Calcium	ppm	ASTM D5185m	1050	1605		
Phosphorus	ppm	ASTM D5185m	995	699		
Zinc	ppm	ASTM D5185m	1180	878		
Sulfur	ppm	ASTM D5185m	2600	2061		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	229		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	9.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7		
Base Number (BN)	mg KOH/g	ASTM D2896		7.4		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: PCA0103686 : 06045889

: 10806497 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 27 Dec 2023 Recieved Diagnosed : 29 Dec 2023

: Jonathan Hester Diagnostician

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)

Transervice - Shop 1365 - Berkeley-Nazareth

6813 Chrisphalt Drive Bath Borough, PA US 18014

Contact: Stephen Mackes smackes@transervice.com

T: (610)837-8103 F: (610)837-8105