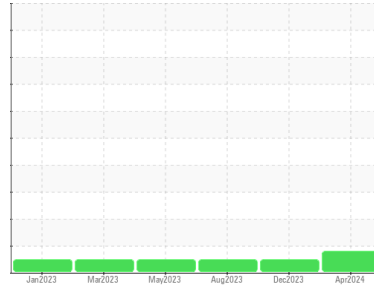


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Area  
**(97200X) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A62111**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

The aluminum level is abnormal. 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.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0118741</b>	PCA0112874	PCA0100195
Sample Date	Client Info		<b>09 Apr 2024</b>	06 Dec 2023	01 Aug 2023
Machine Age	mls	Client Info	<b>662727</b>	637383	581290
Oil Age	mls	Client Info	<b>53228</b>	27864	32197
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>49</b>	17	19
Chromium	ppm	ASTM D5185m >5	<b>4</b>	1	1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>▲ 31</b>	8	10
Lead	ppm	ASTM D5185m >30	<b>1</b>	0	0
Copper	ppm	ASTM D5185m >150	<b>7</b>	3	2
Tin	ppm	ASTM D5185m >5	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>1</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>0</b>	0	2
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>88</b>	59	68
Manganese	ppm	ASTM D5185m 0	<b>2</b>	0	<1
Magnesium	ppm	ASTM D5185m 950	<b>1311</b>	907	1085
Calcium	ppm	ASTM D5185m 1050	<b>1488</b>	1013	1191
Phosphorus	ppm	ASTM D5185m 995	<b>1529</b>	986	1140
Zinc	ppm	ASTM D5185m 1180	<b>1661</b>	1174	1431
Sulfur	ppm	ASTM D5185m 2600	<b>4033</b>	3205	3864

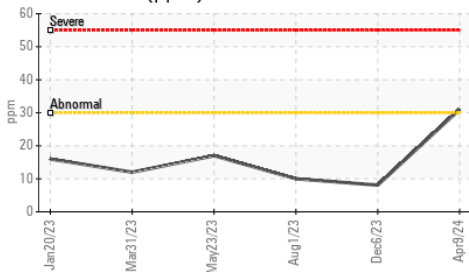
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>9</b>	4	4
Sodium	ppm	ASTM D5185m	<b>4</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	<1

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	0.6	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.8</b>	9.1	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.4</b>	20.4	22.0

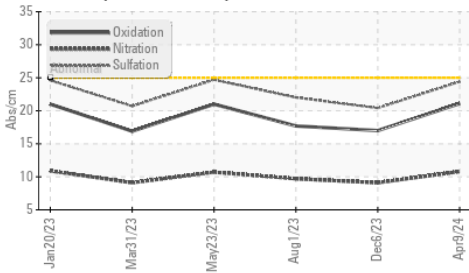
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.1</b>	17.0	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.5</b>	7.0	6.6

# OIL ANALYSIS REPORT

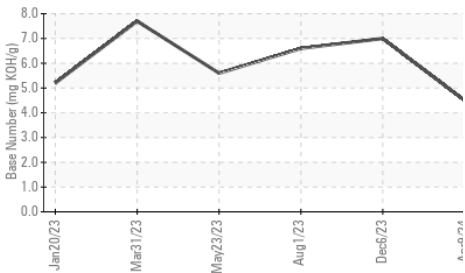
▲ Aluminum (ppm)



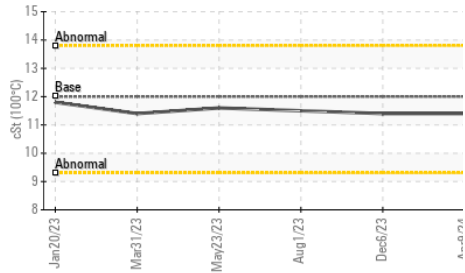
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

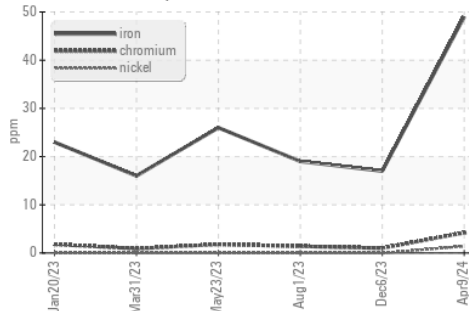


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

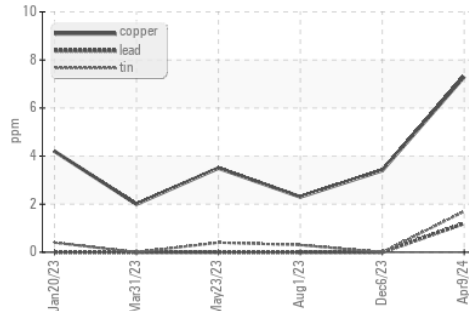
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	11.5

## GRAPHS

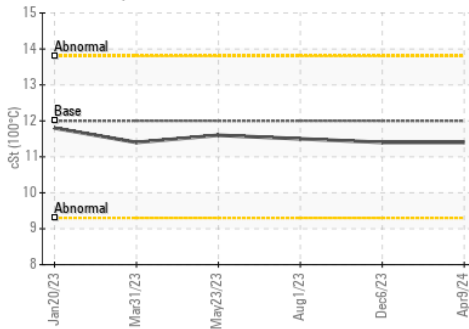
Ferrous Alloys



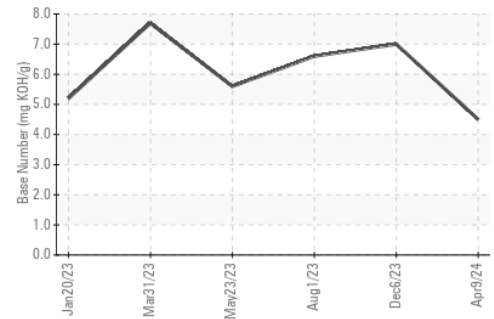
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118741  
**Lab Number** : 06146851  
**Unique Number** : 10976929  
**Test Package** : FLEET

**Received** : 12 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Jonathan Hester

**Transervice - Shop 1364 - Berkeley-Mt. Vernon**  
 5100 Lake Terrace NE  
 Mt. Vernon, IL  
 US 62864

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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