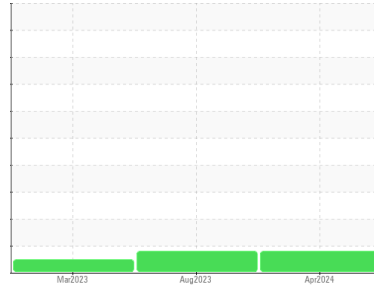


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Area  
**(TEMP) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A62565**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### Recommendation

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

#### Wear

Valve wear is indicated. 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>PCA0106566</b>	PCA0103548	PCA0092920
Sample Date	Client Info			<b>01 Apr 2024</b>	14 Aug 2023	07 Mar 2023
Machine Age	mls Client Info			<b>256864</b>	191249	132159
Oil Age	mls Client Info			<b>63864</b>	60000	40000
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.0		<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	>100		<b>23</b>	29	16
Chromium	ppm ASTM D5185m	>20		<b>2</b>	2	1
Nickel	ppm ASTM D5185m	>4		<b>▲ 6</b>	▲ 6	1
Titanium	ppm ASTM D5185m			<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m	>3		<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20		<b>6</b>	4	7
Lead	ppm ASTM D5185m	>40		<b>9</b>	20	5
Copper	ppm ASTM D5185m	>330		<b>3</b>	5	2
Tin	ppm ASTM D5185m	>15		<b>&lt;1</b>	2	1
Vanadium	ppm ASTM D5185m			<b>&lt;1</b>	<1	0
Cadmium	ppm ASTM D5185m			<b>0</b>	0	0

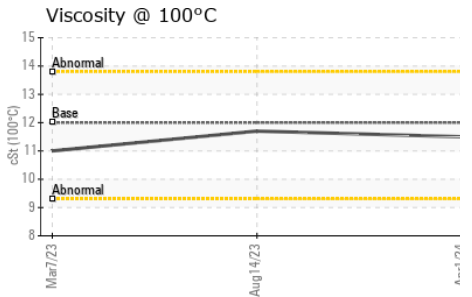
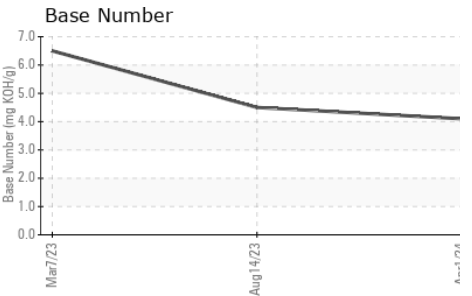
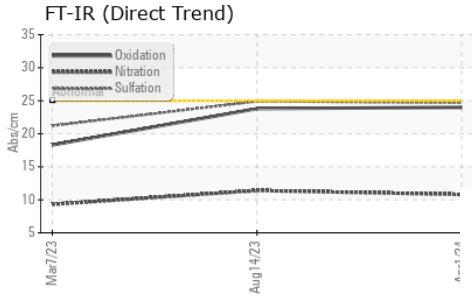
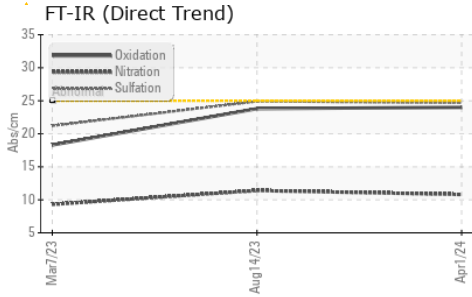
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		<b>0</b>	<1	0
Barium	ppm ASTM D5185m	0		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	50		<b>63</b>	61	58
Manganese	ppm ASTM D5185m	0		<b>&lt;1</b>	1	<1
Magnesium	ppm ASTM D5185m	950		<b>1027</b>	1097	896
Calcium	ppm ASTM D5185m	1050		<b>1124</b>	1255	1083
Phosphorus	ppm ASTM D5185m	995		<b>1071</b>	1046	958
Zinc	ppm ASTM D5185m	1180		<b>1351</b>	1411	1204
Sulfur	ppm ASTM D5185m	2600		<b>3290</b>	3503	2885

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>6</b>	9	5
Sodium	ppm ASTM D5185m			<b>3</b>	3	<1
Potassium	ppm ASTM D5185m	>20		<b>14</b>	22	18

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.3</b>	0.3	0.2
Nitration	Abs/cm *ASTM D7624	>20		<b>10.8</b>	11.4	9.3
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>24.7</b>	24.9	21.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>24.0</b>	23.8	18.3
Base Number (BN)	mg KOH/g ASTM D2896			<b>4.1</b>	4.5	6.5

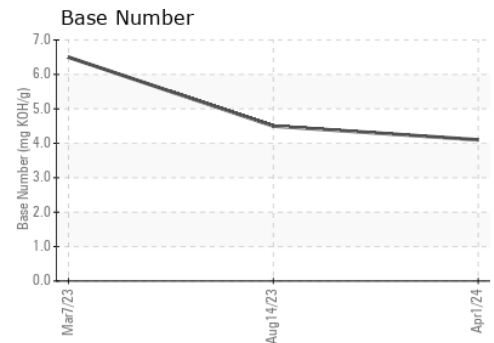
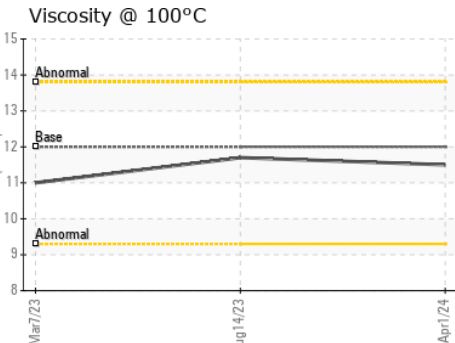
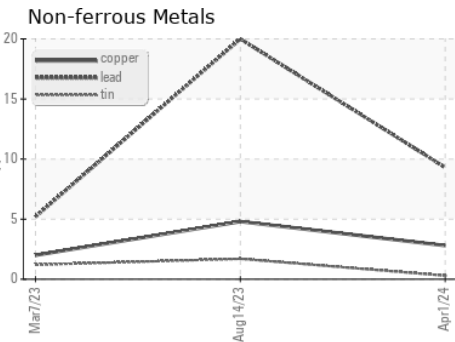
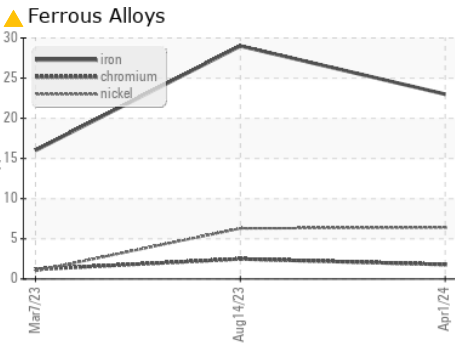
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
<b>VISUAL</b>					
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

PARAMETER	method	limit/base	current	history1	history2
<b>FLUID PROPERTIES</b>					
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106566  
**Lab Number** : 06142007  
**Unique Number** : 10966815  
**Test Package** : FLEET

**Received** : 08 Apr 2024  
**Tested** : 09 Apr 2024  
**Diagnosed** : 10 Apr 2024 - Don Baldrige

**Transervice - Shop 1369 - Berkeley-Waxahachie**  
 710 Ovilla Road  
 Waxahachie, TX  
 US 75167

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)

Contact: Robert Beal  
 rbeal@transervice.com  
 T: (972)923-9928  
 F: (972)923-9919