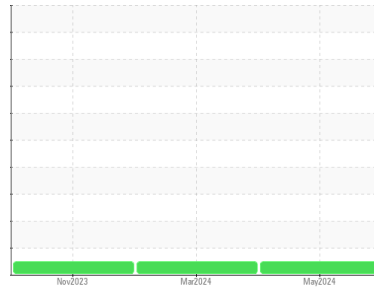


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(P1184784) Preferred Service-Tractor**  
 Machine Id  
**[Preferred Service-Tractor] 192A32031B**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (36 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Top Up Amount: 4 QTS )

#### Wear

All 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>PCA0126932</b>	PCA0116670	PCA0112173
Sample Date	Client Info			<b>30 May 2024</b>	05 Mar 2024	19 Nov 2023
Machine Age	mls	Client Info		<b>123052</b>	101197	74324
Oil Age	mls	Client Info		<b>21855</b>	25873	50121
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<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>28</b>	44	61
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	0
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	14	16
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>330	<b>120</b>	86	225
Tin	ppm	ASTM D5185m	>15	<b>3</b>	3	4
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

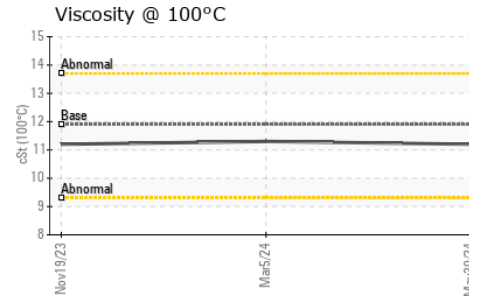
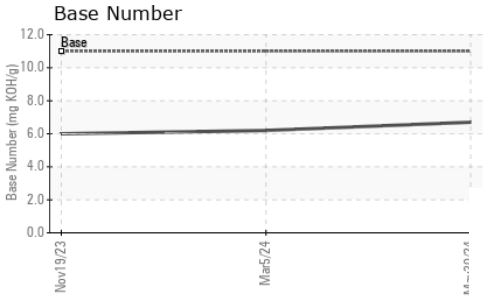
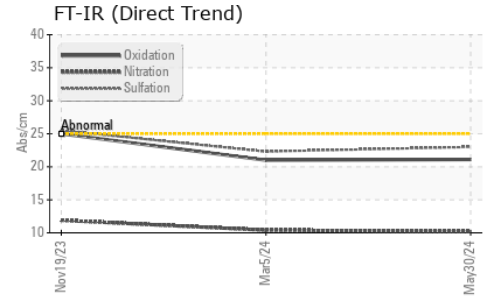
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>32</b>	21	6
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	64	<b>63</b>	94	62
Manganese	ppm	ASTM D5185m	0	<b>2</b>	1	1
Magnesium	ppm	ASTM D5185m	1160	<b>1012</b>	1685	1123
Calcium	ppm	ASTM D5185m	820	<b>903</b>	1265	946
Phosphorus	ppm	ASTM D5185m	1160	<b>961</b>	1463	1016
Zinc	ppm	ASTM D5185m	1260	<b>1215</b>	1825	1239
Sulfur	ppm	ASTM D5185m	3000	<b>3149</b>	4904	2543

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>21</b>	11	13
Sodium	ppm	ASTM D5185m		<b>5</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>34</b>	39	46

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.6	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.4	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	22.3	25.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.1</b>	21.0	25.0
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>6.7</b>	6.2	6.0

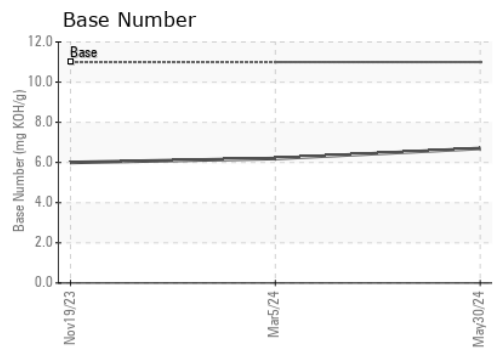
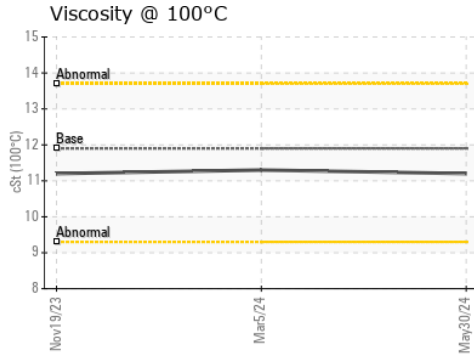
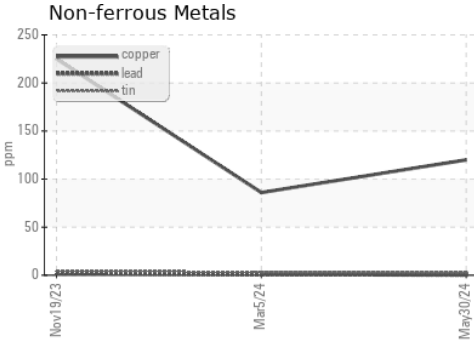
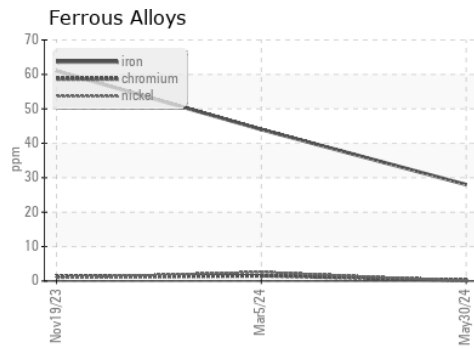
# OIL ANALYSIS REPORT



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	11.9	11.2	11.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0126932      **Received** : 06 Jun 2024  
**Lab Number** : 06201142      **Tested** : 07 Jun 2024  
**Unique Number** : 11063265      **Diagnosed** : 09 Jun 2024 - Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 1920 - Preferred Service**  
 1955 W. North Avenue, Bldg K  
 Melrose Park, IL  
 US 60160  
 Contact: Tom Lindeman  
 tlindemann@transervice.com  
 T: (630)376-8946  
 F:

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)