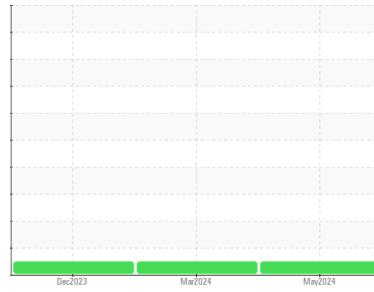


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(TEMP) Preferred Service-Tractor**  
 Machine Id  
**[Preferred Service-Tractor] 192A32036B**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (36 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0126933</b>	PCA0116684	PCA0114386
Sample Date	Client Info			<b>27 May 2024</b>	12 Mar 2024	06 Dec 2023
Machine Age	mls	Client Info		<b>78647</b>	54382	27894
Oil Age	mls	Client Info		<b>24265</b>	26508	25894
Oil Changed	Client Info			<b>Changed</b>	Oil Added	Not Changd
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>52</b>	29	38
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>17</b>	14	30
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>200</b>	247	321
Tin	ppm	ASTM D5185m	>15	<b>3</b>	2	5
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

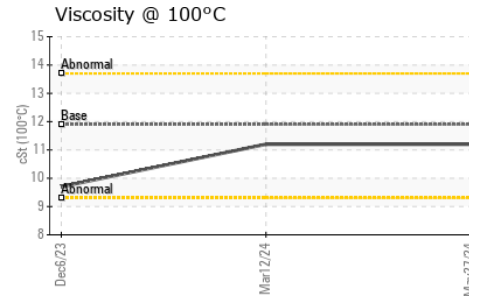
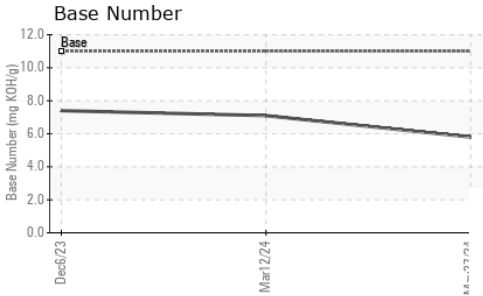
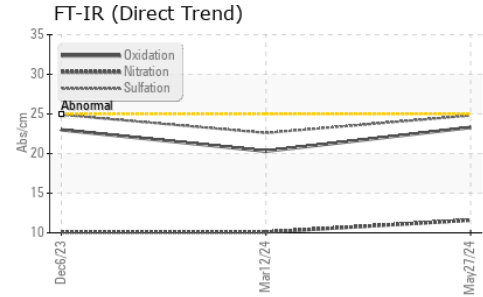
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>12</b>	32	230
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	13
Molybdenum	ppm	ASTM D5185m	64	<b>69</b>	72	128
Manganese	ppm	ASTM D5185m	0	<b>2</b>	1	5
Magnesium	ppm	ASTM D5185m	1160	<b>1083</b>	1068	668
Calcium	ppm	ASTM D5185m	820	<b>922</b>	968	1489
Phosphorus	ppm	ASTM D5185m	1160	<b>1015</b>	1034	691
Zinc	ppm	ASTM D5185m	1260	<b>1306</b>	1297	890
Sulfur	ppm	ASTM D5185m	3000	<b>3145</b>	3001	2438

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>18</b>	18	71
Sodium	ppm	ASTM D5185m		<b>6</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>45</b>	38	72

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.1</b>	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	10.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.8</b>	22.6	24.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.3</b>	20.3	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>5.8</b>	7.1	7.4

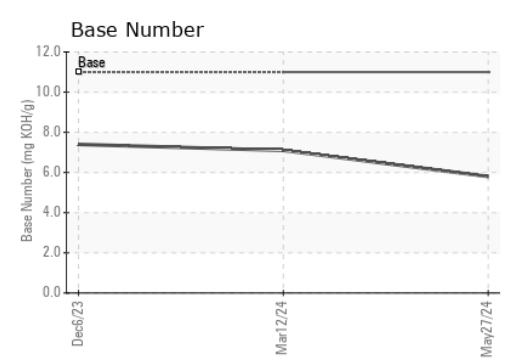
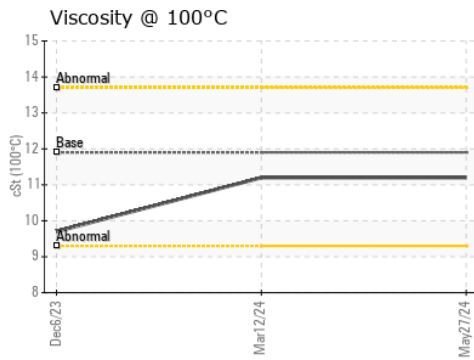
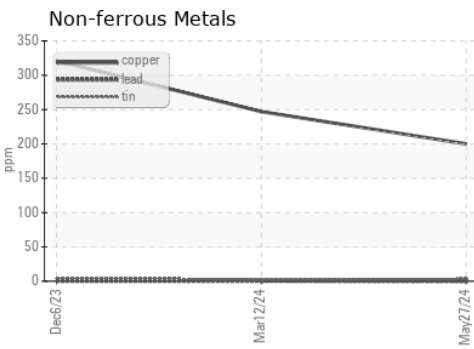
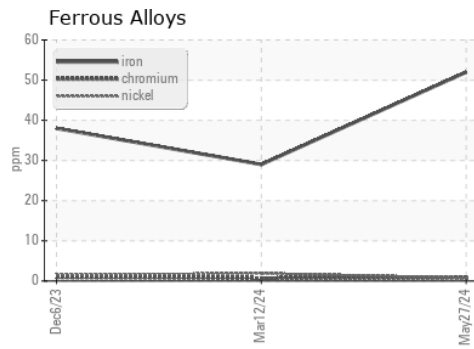
# OIL ANALYSIS REPORT



PARAMETER	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	11.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0126933      **Received** : 31 May 2024  
**Lab Number** : 06196187      **Tested** : 03 Jun 2024  
**Unique Number** : 11058310      **Diagnosed** : 03 Jun 2024 - Wes Davis  
**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)