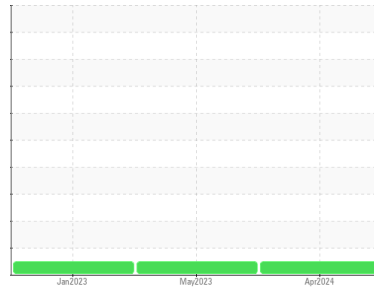


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**739574**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0101974</b>	PCA0093180	PCA0078900
Sample Date	Client Info			<b>01 Apr 2024</b>	26 May 2023	19 Jan 2023
Machine Age	mls	Client Info		<b>306816</b>	154226	88636
Oil Age	mls	Client Info		<b>0</b>	0	88636
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</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	>100	<b>80</b>	71	141
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	4	11
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	25	85
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>12</b>	44	224
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	5
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

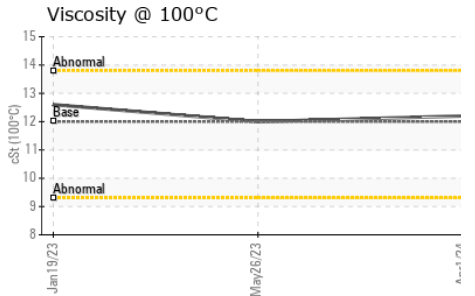
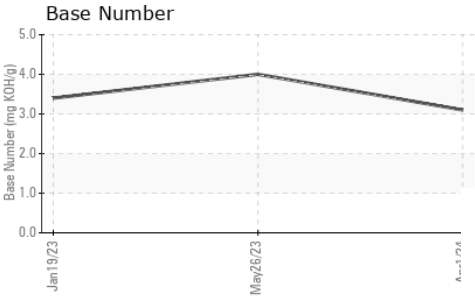
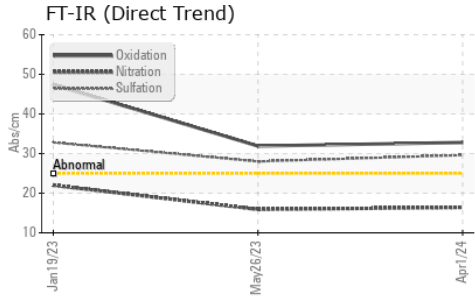
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>1</b>	7	16
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	50	<b>70</b>	69	45
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	4
Magnesium	ppm	ASTM D5185m	950	<b>1125</b>	956	531
Calcium	ppm	ASTM D5185m	1050	<b>1412</b>	1333	1719
Phosphorus	ppm	ASTM D5185m	995	<b>1194</b>	1036	671
Zinc	ppm	ASTM D5185m	1180	<b>1547</b>	1358	876
Sulfur	ppm	ASTM D5185m	2600	<b>3003</b>	2665	1815

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	8	14
Sodium	ppm	ASTM D5185m		<b>3</b>	4	10
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	51	228

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.7</b>	1.5	2
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.4</b>	15.9	22.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.6</b>	28.0	32.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.8</b>	31.9	47.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.1</b>	4.0	3.4

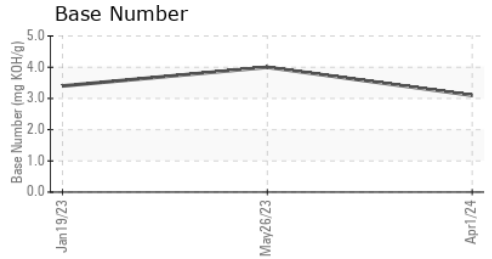
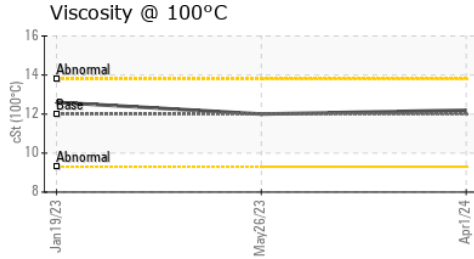
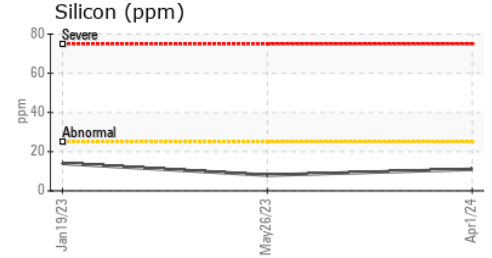
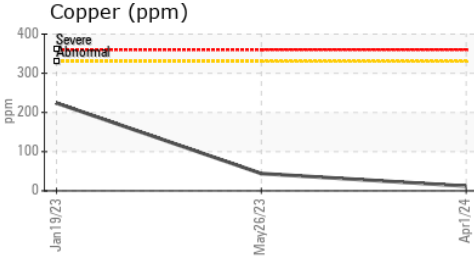
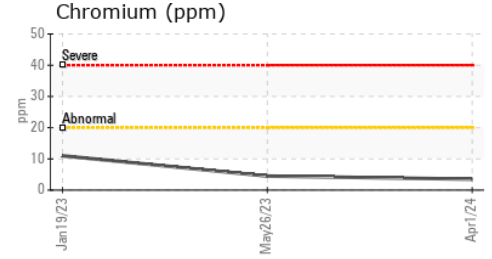
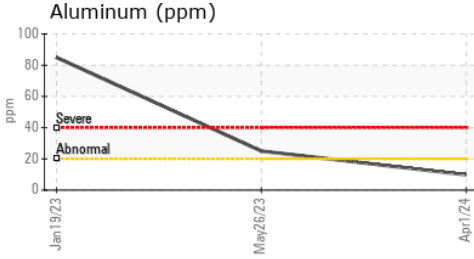
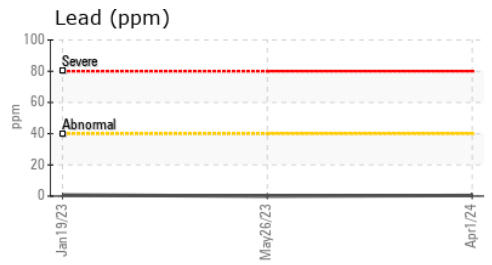
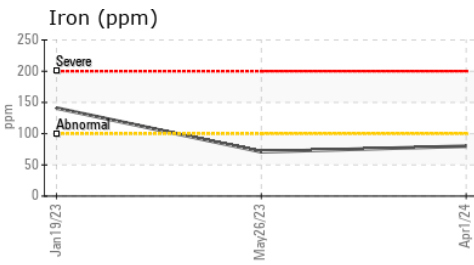
# OIL ANALYSIS REPORT



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	12.00	12.2	12.0

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101974      **Received** : 11 Apr 2024  
**Lab Number** : 06145676      **Tested** : 12 Apr 2024  
**Unique Number** : 10970484      **Diagnosed** : 14 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #112**  
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 CINNAMINSON, NJ  
 US 08077  
 Contact: MIKE BOYER  
 mboyer@millertransgroup.com  
 T: (856)662-4264  
 F: (856)663-4898

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)