

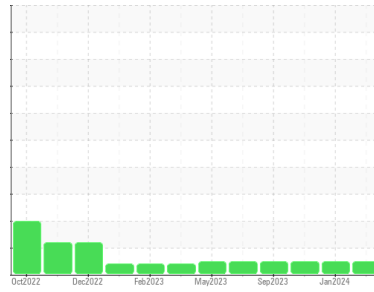


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 374 10553 (S/N TNX10028)**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

Sample Rating Trend



**NORMAL**

## 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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0913263</b>	WC0888232	WC0879386
Sample Date	Client Info		<b>27 May 2024</b>	29 Jan 2024	28 Nov 2023
Machine Age	hrs	Client Info	<b>8221</b>	7387	6338
Oil Age	hrs	Client Info	<b>834</b>	1049	777
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>40</b>	38	38
Chromium	ppm	ASTM D5185m >6	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>2</b>	2	1
Lead	ppm	ASTM D5185m >10	<b>8</b>	13	14
Copper	ppm	ASTM D5185m >150	<b>6</b>	5	11
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	<b>4</b>	3	2
Barium	ppm	ASTM D5185m 1	<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185m 60	<b>63</b>	64	65
Manganese	ppm	ASTM D5185m 1	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 1010	<b>1008</b>	971	958
Calcium	ppm	ASTM D5185m 1070	<b>1274</b>	1129	1137
Phosphorus	ppm	ASTM D5185m 1150	<b>1112</b>	1031	901
Zinc	ppm	ASTM D5185m 1270	<b>1363</b>	1295	1204
Sulfur	ppm	ASTM D5185m 2060	<b>3516</b>	2781	3241

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>7</b>	5	6
Sodium	ppm	ASTM D5185m	<b>2</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	<1

## INFRA-RED

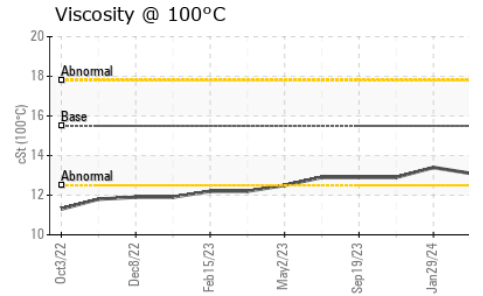
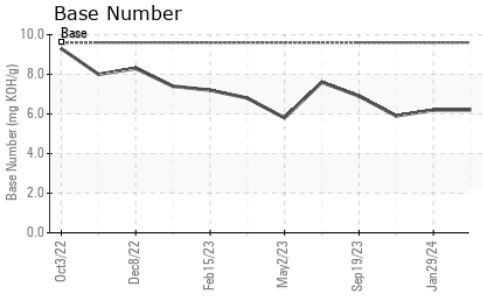
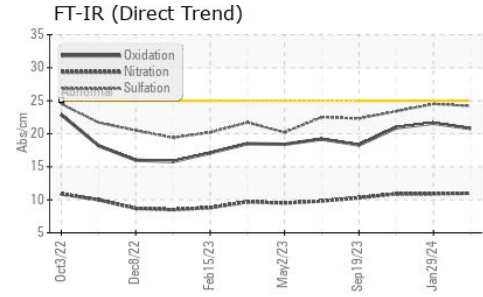
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.0</b>	10.9	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.2</b>	24.5	23.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.8</b>	21.6	20.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	<b>6.2</b>	6.2	5.9



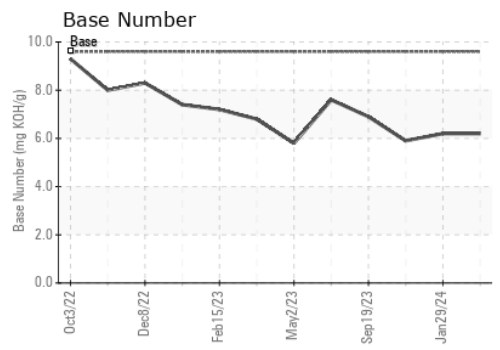
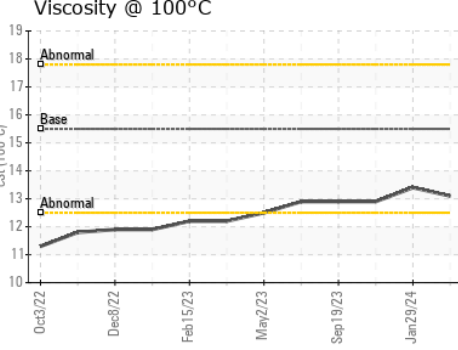
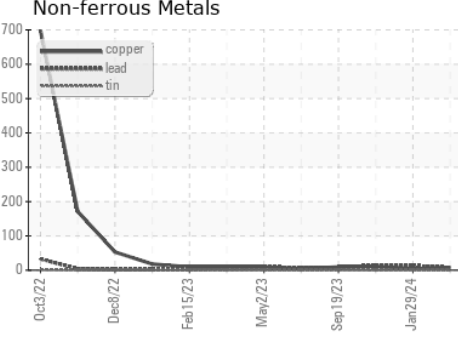
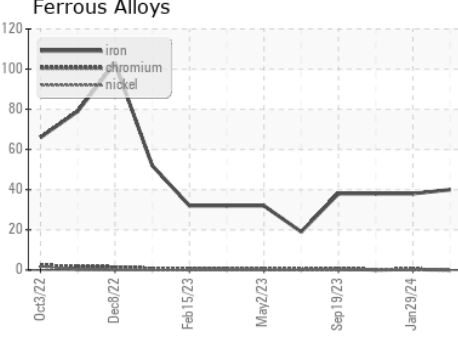
# OIL ANALYSIS REPORT



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	15.5	13.1	13.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0913263      **Received** : 31 May 2024  
**Lab Number** : 06196219      **Tested** : 03 Jun 2024  
**Unique Number** : 11058342      **Diagnosed** : 03 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**TRADER CONSTRUCTION CO.**  
 PO DRAWER 1578  
 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mw Wyatt@traderconstruction.com  
 T: (252)633-1399  
 F: (252)638-4871

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)