



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
DYNAPAC ROLLER CAR 314

Component
Diesel Engine

Fluid
PETRO CANADA 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0822235	---	---
Sample Date	Client Info	09 Oct 2023	---	---
Machine Age	hrs	Client Info	8000	---
Oil Age	hrs	Client Info	114	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	81	---
Chromium	ppm	ASTM D5185m >20	4	---
Nickel	ppm	ASTM D5185m >4	4	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	5	---
Lead	ppm	ASTM D5185m >40	<1	---
Copper	ppm	ASTM D5185m >330	8	---
Tin	ppm	ASTM D5185m >15	<1	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	<1	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4	---
Barium	ppm	ASTM D5185m	4	---
Molybdenum	ppm	ASTM D5185m	60	---
Manganese	ppm	ASTM D5185m	1	---
Magnesium	ppm	ASTM D5185m	809	---
Calcium	ppm	ASTM D5185m	961	---
Phosphorus	ppm	ASTM D5185m	881	---
Zinc	ppm	ASTM D5185m	1041	---
Sulfur	ppm	ASTM D5185m	2551	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	18	---
Sodium	ppm	ASTM D5185m	4	---
Potassium	ppm	ASTM D5185m >20	<1	---
Fuel	%	ASTM D3524 >5	▲ 7.7	---

INFRA-RED

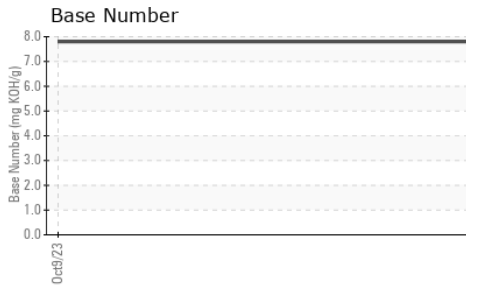
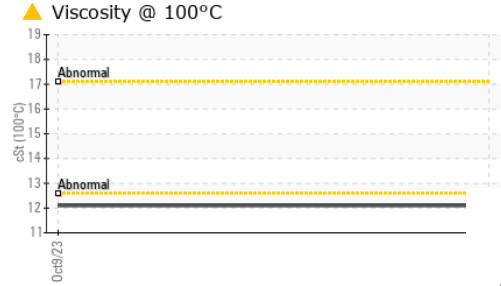
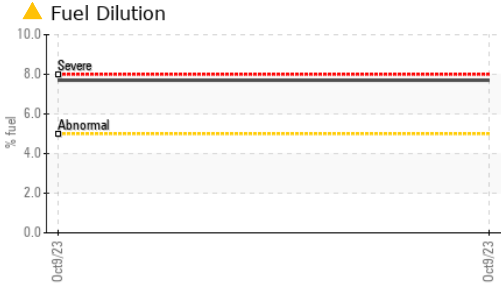
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	7.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.2	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	---



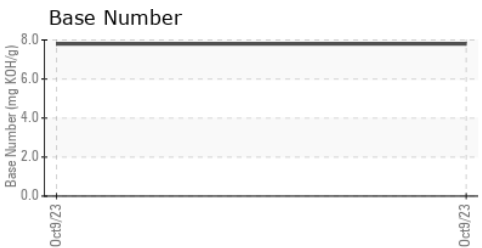
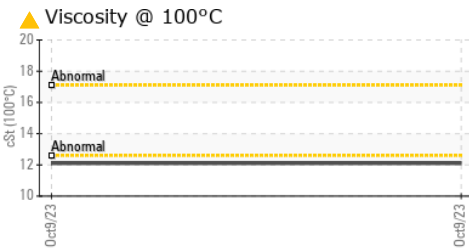
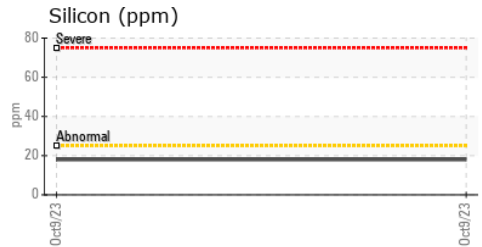
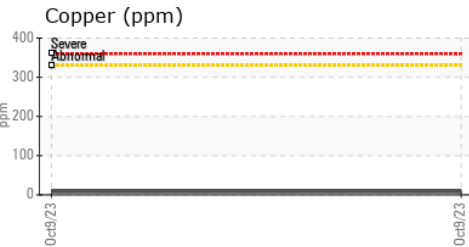
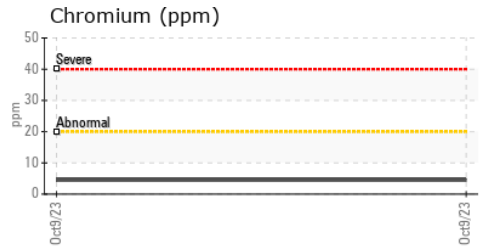
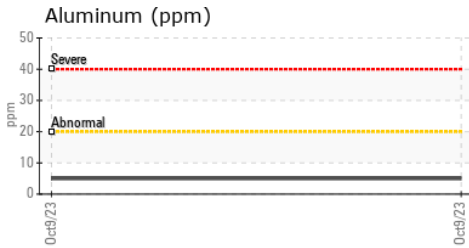
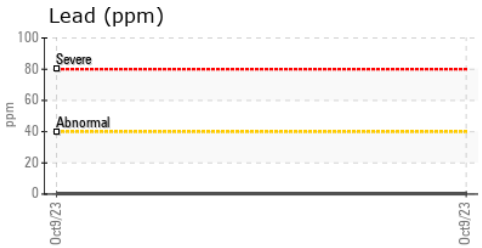
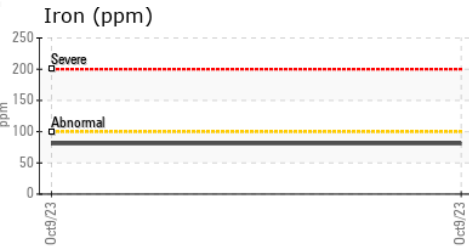
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 12.1	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0822235 **Received** : 16 Oct 2023
Lab Number : 05980230 **Diagnosed** : 18 Oct 2023
Unique Number : 10697525 **Diagnostician** : Angela Borella
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)

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