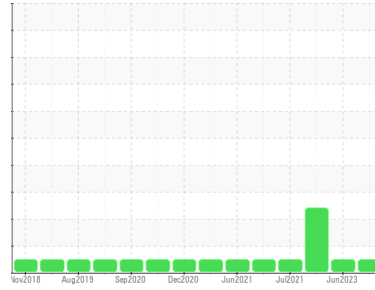


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
PETERBILT 31

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (52 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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0098374	PCA0090830	PCA0059483
Sample Date	Client Info		14 Oct 2023	05 Jun 2023	16 Jun 2022
Machine Age	mls	Client Info	186279	174554	168450
Oil Age	mls	Client Info	11725	6104	17450
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	16	22	21
Chromium	ppm	ASTM D5185m >20	1	3	<1
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m >2	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	1	▲ 6
Lead	ppm	ASTM D5185m >40	<1	0	3
Copper	ppm	ASTM D5185m >330	<1	<1	2
Tin	ppm	ASTM D5185m >15	<1	<1	1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	6	12
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	64
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	942	906	984
Calcium	ppm	ASTM D5185m	1072	1141	1119
Phosphorus	ppm	ASTM D5185m	1004	965	1081
Zinc	ppm	ASTM D5185m	1244	1157	1287
Sulfur	ppm	ASTM D5185m	2929	3285	2942

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	11	▲ 29
Sodium	ppm	ASTM D5185m	3	4	5
Potassium	ppm	ASTM D5185m >20	2	0	2

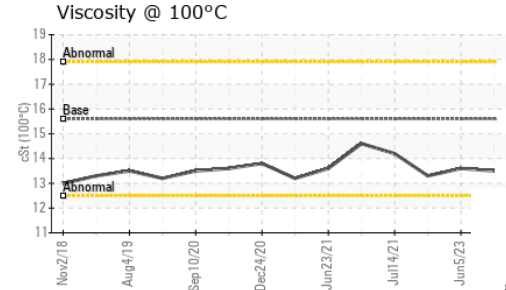
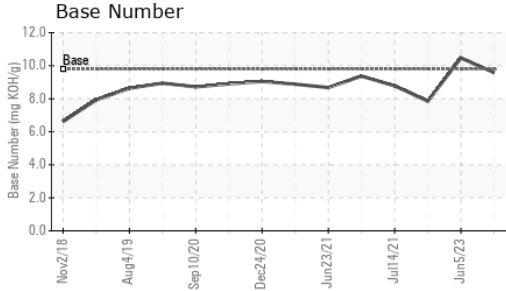
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.1	7.3	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.3	18.9	20.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.3	14.5	17.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	9.58	10.47	7.85

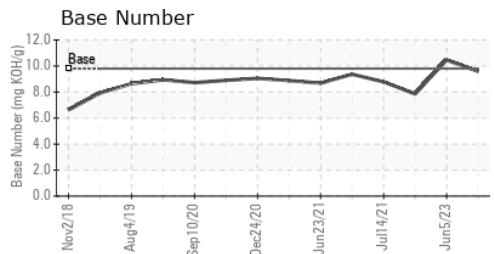
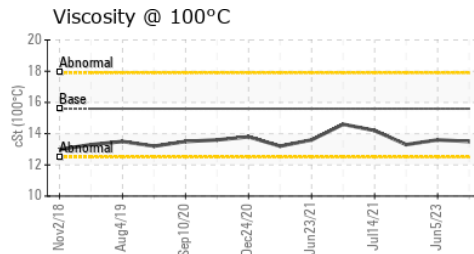
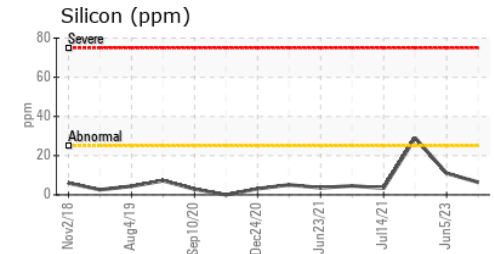
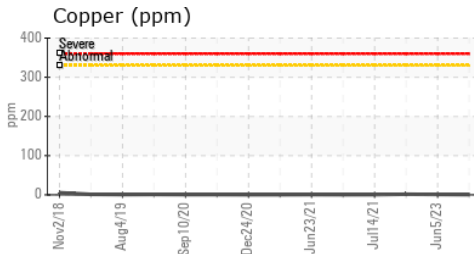
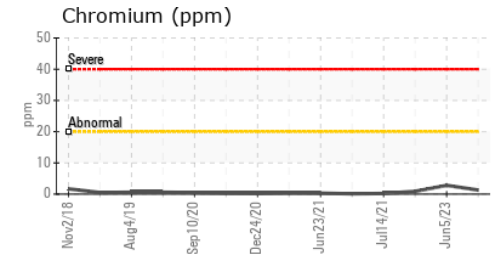
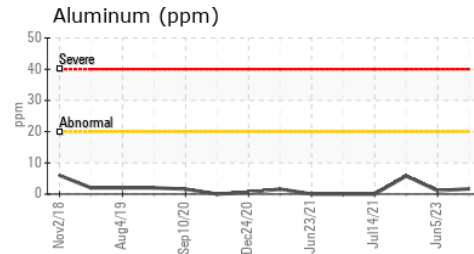
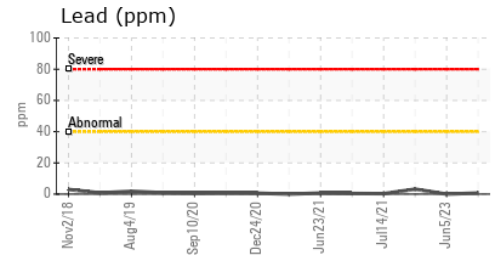
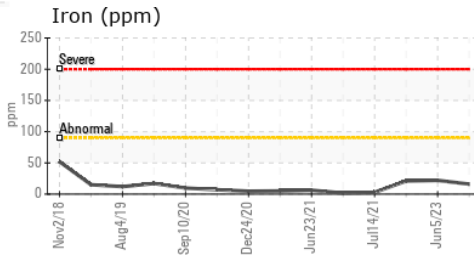
OIL ANALYSIS REPORT



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	15.6	13.5	13.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098374 **Received** : 31 Oct 2023
Lab Number : 05994524 **Diagnosed** : 08 Nov 2023
Unique Number : 10722884 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

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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)