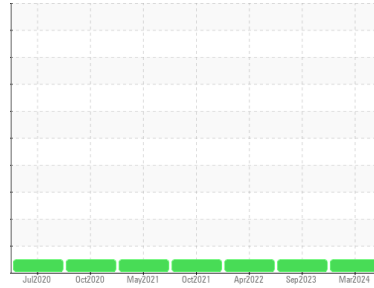


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
PETERBILT 7

 Component
Diesel Engine
 Fluid

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)
DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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			PCA0105129	PCA0105054	PCA0053940
Sample Date	Client Info			08 Mar 2024	26 Sep 2023	09 Apr 2022
Machine Age	mls	Client Info		193566	130868	100751
Oil Age	mls	Client Info		20000	20000	20000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34	24	12
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	21	12	5
Lead	ppm	ASTM D5185m	>40	2	0	6
Copper	ppm	ASTM D5185m	>330	5	8	4
Tin	ppm	ASTM D5185m	>15	1	2	<1
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

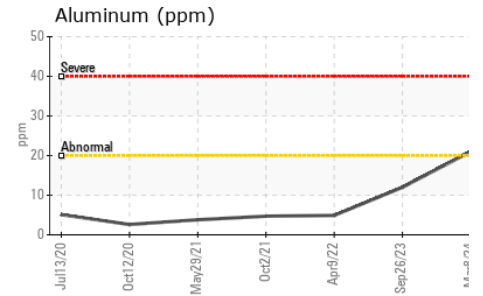
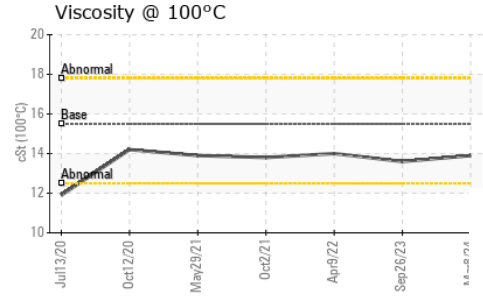
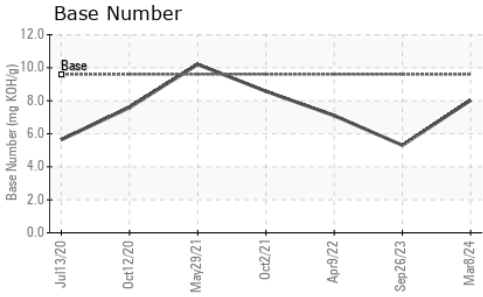
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	<1	11	3
Barium	ppm	ASTM D5185m	1	1	0	0
Molybdenum	ppm	ASTM D5185m	60	72	67	62
Manganese	ppm	ASTM D5185m	1	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1011	962	901
Calcium	ppm	ASTM D5185m	1070	1271	1200	1065
Phosphorus	ppm	ASTM D5185m	1150	1110	1051	987
Zinc	ppm	ASTM D5185m	1270	1350	1322	1225
Sulfur	ppm	ASTM D5185m	2060	3001	2729	2792

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	12	13
Sodium	ppm	ASTM D5185m		<1	6	<1
Potassium	ppm	ASTM D5185m	>20	45	23	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.7	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	24.1	24.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	21.7	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	8.03	5.3	7.1

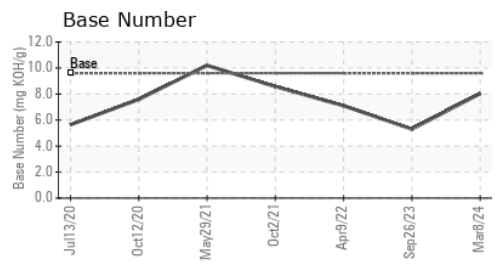
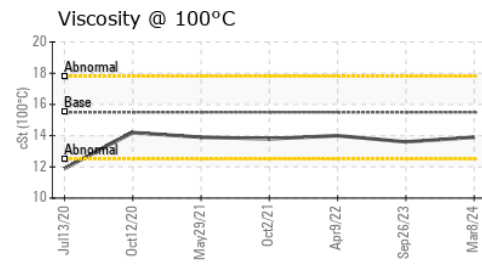
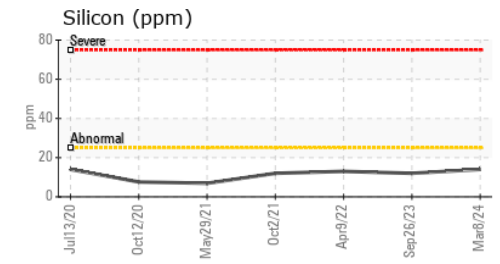
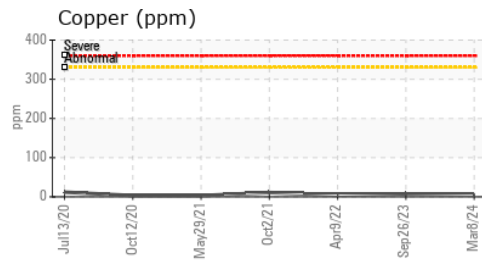
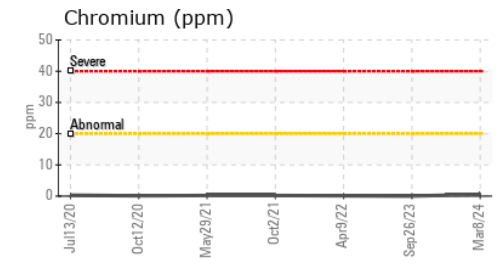
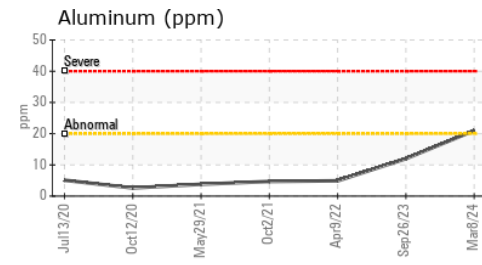
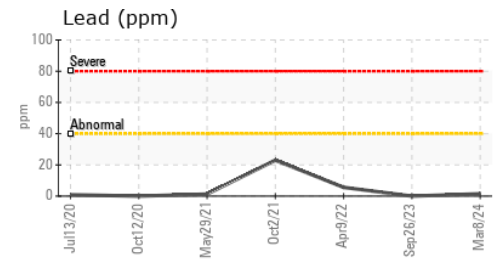
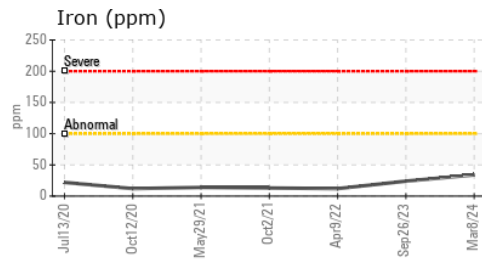
OIL ANALYSIS REPORT



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	13.9	13.6	14.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105129 **Received** : 25 Mar 2024
Lab Number : **06128832** **Tested** : 27 Mar 2024
Unique Number : 10942983 **Diagnosed** : 27 Mar 2024 - Wes Davis
Test Package : MOB 2

B & B HARVESTING
 2842 LADD RD
 MODESTO, CA
 US 95356
 Contact: Service Manager
 drcalvalley@gmail.com
 T: (209)545-8300
 F:

Certificate L2367
 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)