



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PETERBILT 316B - TRC PRO-SPEC V SYN BLEND 10W30**

Component  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC V SYN BLEND 10W30 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06097232</b>	TR06050175	TR06030877
Sample Date		Client Info		<b>17 Feb 2024</b>	26 Dec 2023	04 Dec 2023
Machine Age	mls	Client Info		<b>168629</b>	156802	151268
Oil Age	mls	Client Info		<b>12741</b>	38072	32538
Filter Age	mls	Client Info		<b>12741</b>	38072	32538
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>8</b>	16	14
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	6	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	4	3
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

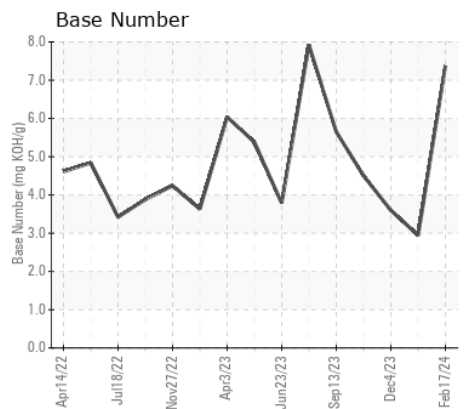
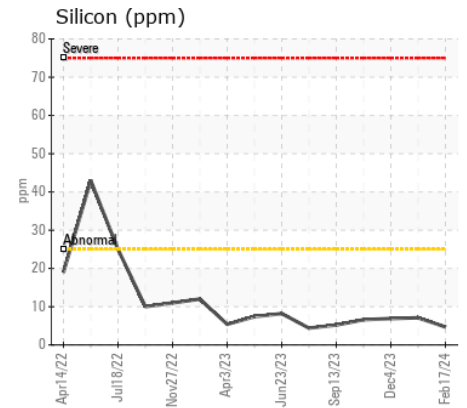
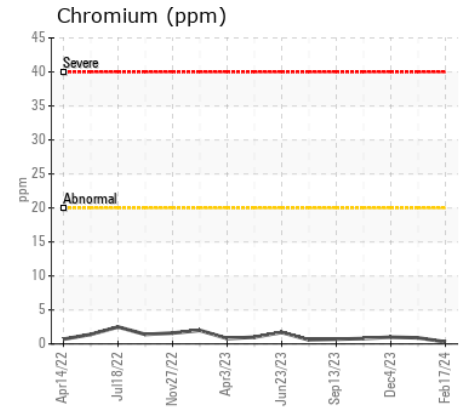
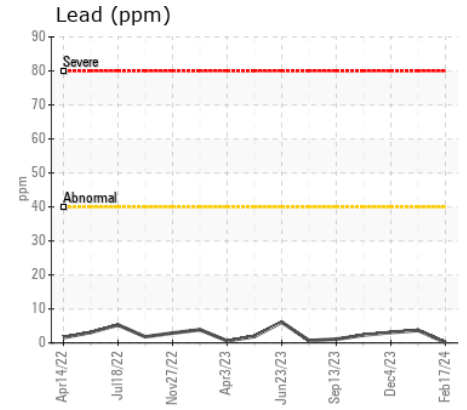
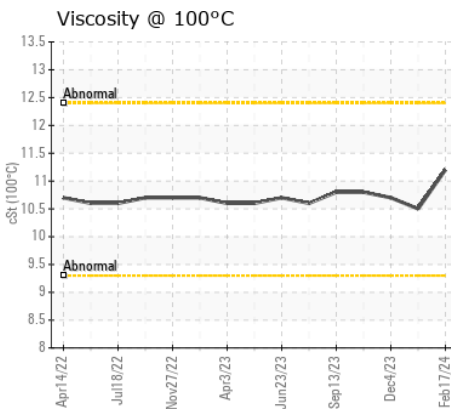
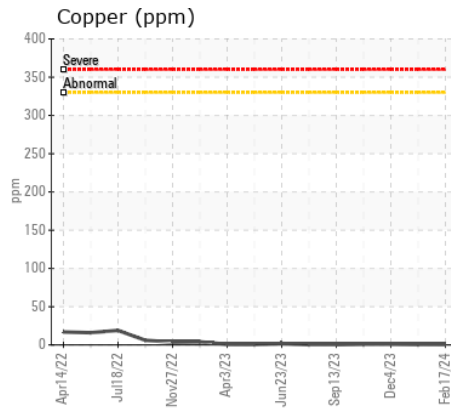
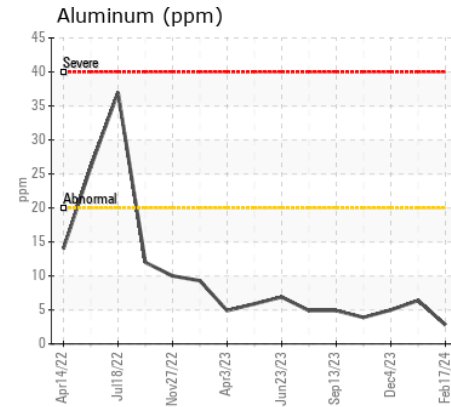
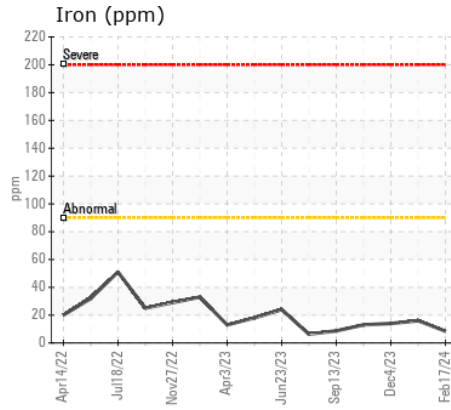
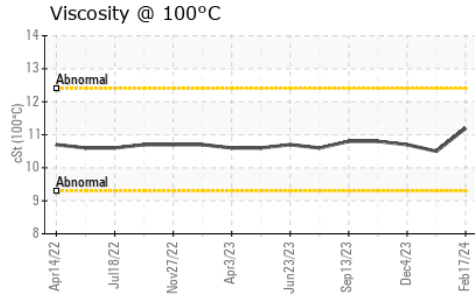
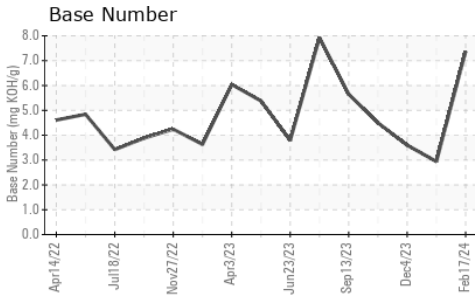
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	18	14
Fuel		WC Method	>3.0	<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
Soot %	%	*ASTM D7844	>6	<b>0.2</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.5</b>	7.3	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	20.7	19.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	4
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	12	9
Calcium	ppm	ASTM D5185m		<b>2058</b>	1623	1717
Phosphorus	ppm	ASTM D5185m		<b>799</b>	621	584
Zinc	ppm	ASTM D5185m		<b>939</b>	768	788
Sulfur	ppm	ASTM D5185m		<b>3264</b>	2480	2769
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.5</b>	12.5	11.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.37</b>	2.94	▲ 3.60
Visc @ 100°C	cSt	ASTM D445		<b>11.2</b>	10.5	10.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06097232  
**Lab Number** : 06097232  
**Unique Number** : 10890085  
**Test Package** : MOB 2

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**STEVE BURNER**  
 1317 BALD CYPRESS PASS  
 WINTER HAVEN, FL  
 US 33881  
 Contact: STEVE BURNER  
 BURNERSTEVE@ICLOUD.COM

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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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F: