



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 548 986 (S/N 608181)
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC IV SYN BLEND SAE 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06228136	TR06006543	---
Sample Date		Client Info		09 Dec 2023	02 Sep 2023	---
Machine Age	mls	Client Info		32000	16506	---
Oil Age	mls	Client Info		16000	16506	---
Filter Age	mls	Client Info		16000	16506	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	38	43	---
Chromium	ppm	ASTM D5185m	>20	1	0	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	7	8	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	5	11	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

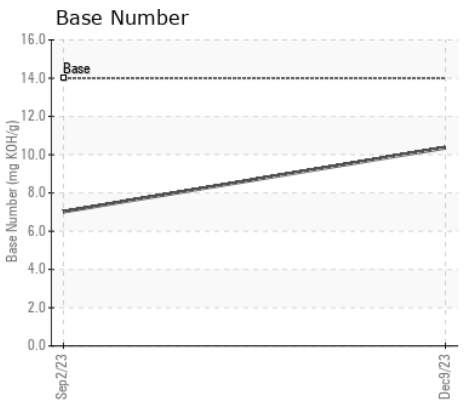
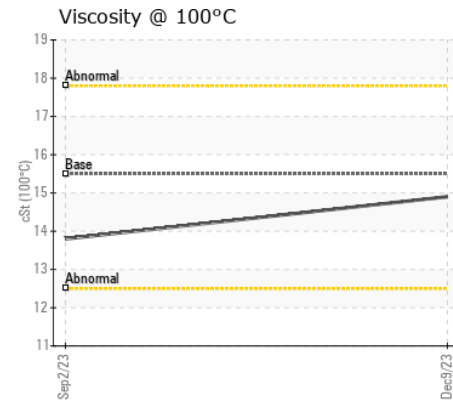
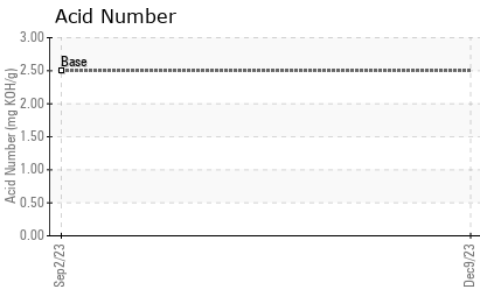
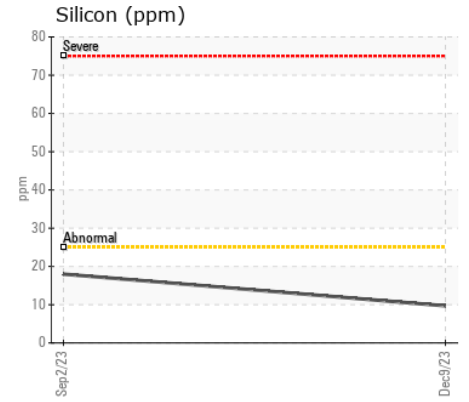
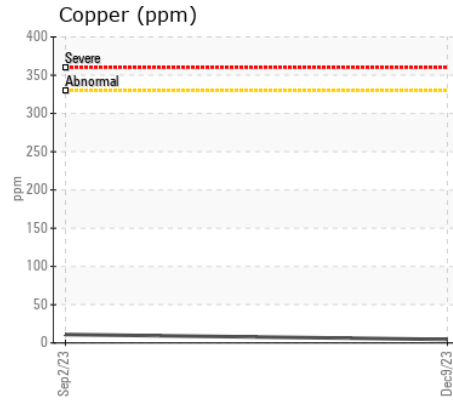
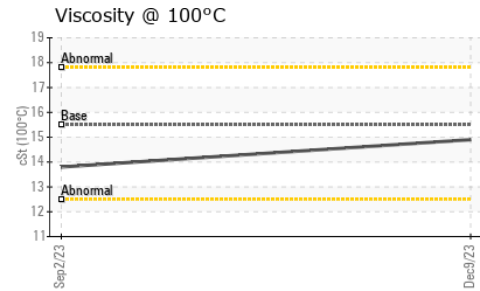
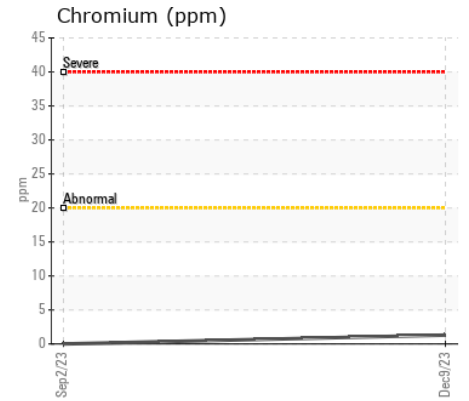
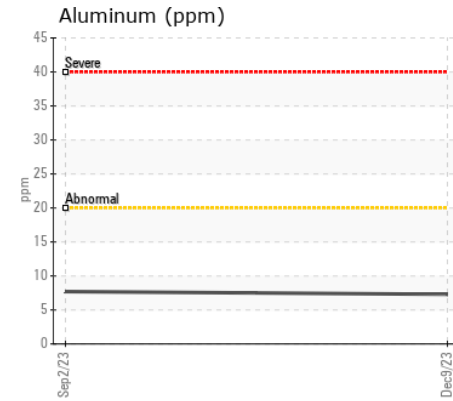
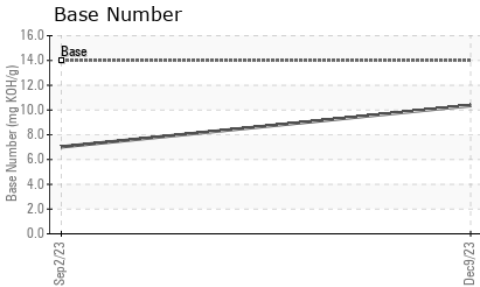
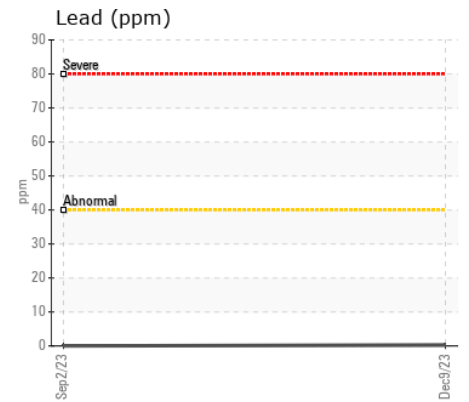
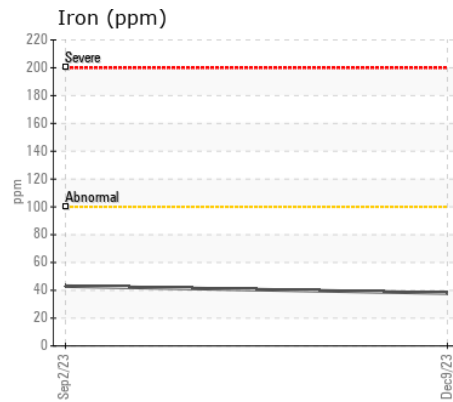
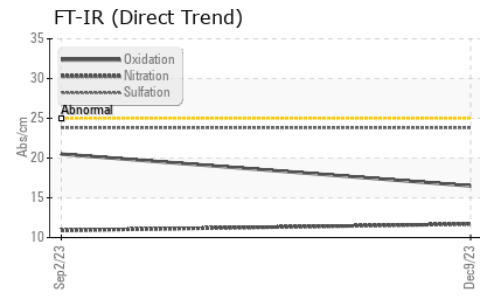
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	18	---
Potassium	ppm	ASTM D5185m	>20	14	17	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.8	---
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	---

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		2	4	---
Boron	ppm	ASTM D5185m	0	25	131	---
Barium	ppm	ASTM D5185m	0	0	3	---
Molybdenum	ppm	ASTM D5185m	0	23	98	---
Manganese	ppm	ASTM D5185m		2	5	---
Magnesium	ppm	ASTM D5185m	9	136	574	---
Calcium	ppm	ASTM D5185m	2300	4244	1842	---
Phosphorus	ppm	ASTM D5185m	1000	863	697	---
Zinc	ppm	ASTM D5185m	1200	1111	878	---
Sulfur	ppm	ASTM D5185m	3100	3891	2665	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	20.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	14	10.36	7.02	---
Visc @ 100°C	cSt	ASTM D445	15.5	14.9	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06228136 **Received** : 03 Jul 2024
Lab Number : 06228136 **Tested** : 08 Jul 2024
Unique Number : 11111629 **Diagnosed** : 08 Jul 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: TAN Man)

ZACHRY FARMS
 15231 COUNTY FARM RD
 CARLYLE, IL
 US 62231
 Contact: CHARLES FLATT

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: