



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PETERBILT 379 60 (S/N 218518)**

Component  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC IV SYN BLEND SAE 15W40 (12 GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06228141	TR05776224	---
Sample Date		Client Info		08 Dec 2023	09 Jul 2022	---
Machine Age	mls	Client Info		1850000	845845	---
Oil Age	mls	Client Info		8000	16579	---
Filter Age	mls	Client Info		8000	16579	---
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	>86	22	30	---
Chromium	ppm	ASTM D5185m	>3	1	1	---
Nickel	ppm	ASTM D5185m	>3	<1	1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>15	5	7	---
Lead	ppm	ASTM D5185m	>16	<1	2	---
Copper	ppm	ASTM D5185m	>250	7	37	---
Tin	ppm	ASTM D5185m	>2	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

**CONTAMINATION**

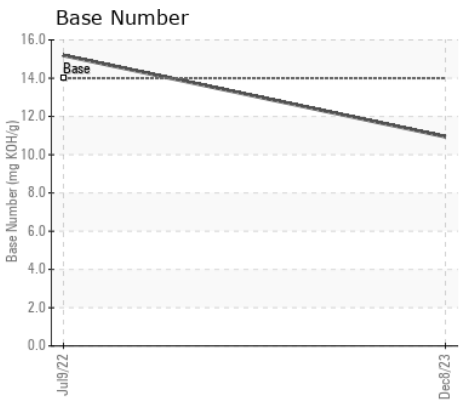
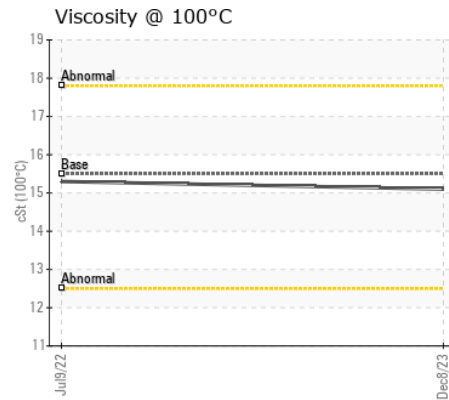
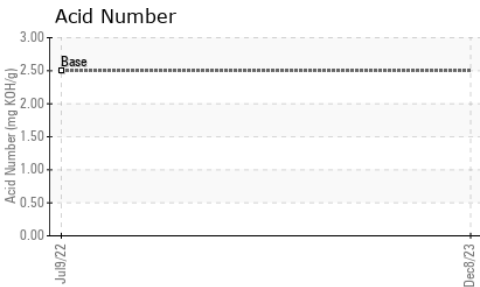
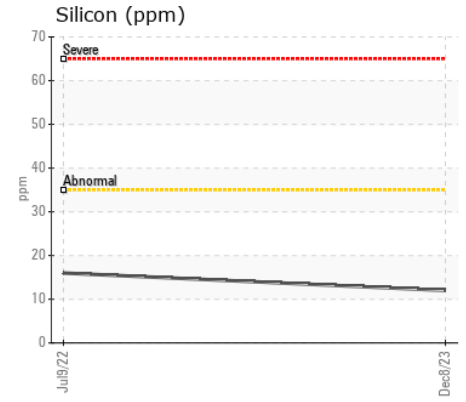
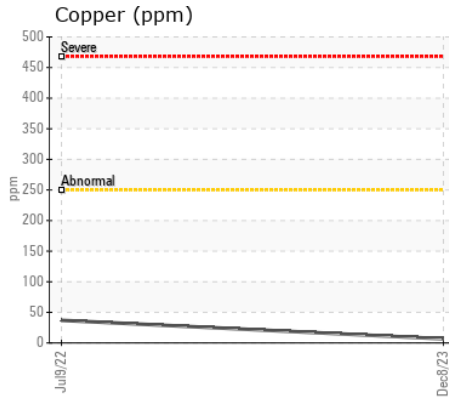
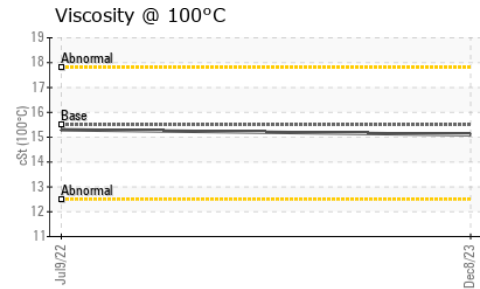
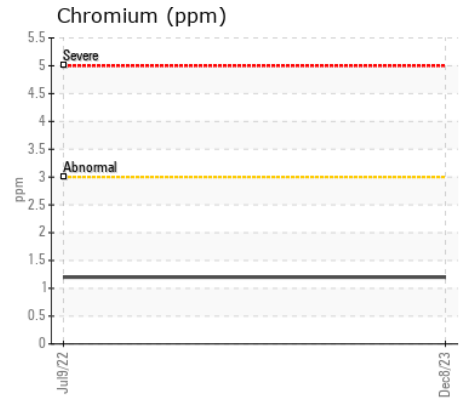
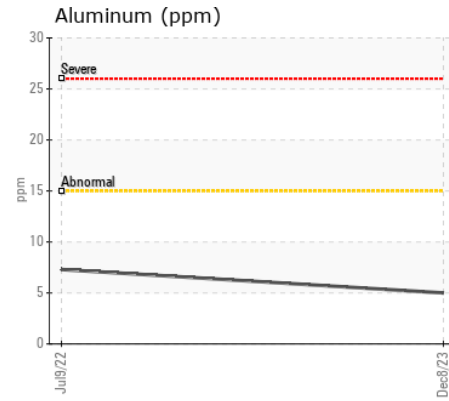
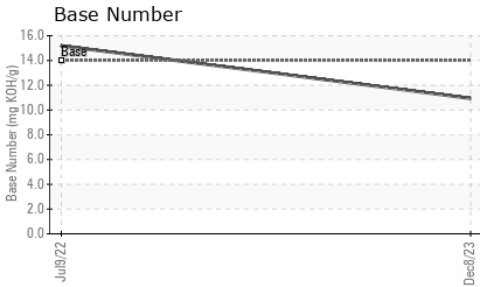
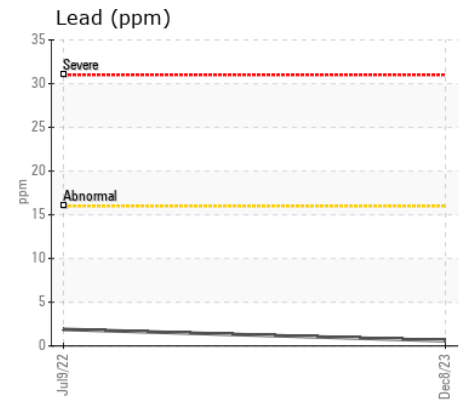
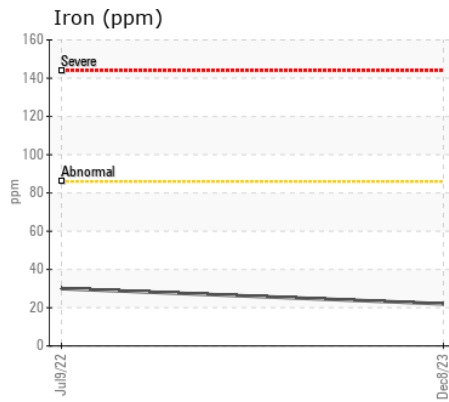
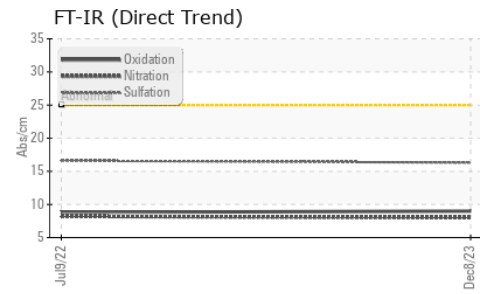
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	12	16	---
Potassium	ppm	ASTM D5185m	>20	5	6	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	16.6	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		17	15	---
Boron	ppm	ASTM D5185m	0	3	4	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	2	5	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	9	15	21	---
Calcium	ppm	ASTM D5185m	2300	4525	4246	---
Phosphorus	ppm	ASTM D5185m	1000	870	869	---
Zinc	ppm	ASTM D5185m	1200	1075	1067	---
Sulfur	ppm	ASTM D5185m	3100	4105	4817	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.0	8.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	14	10.94	15.19	---
Visc @ 100°C	cSt	ASTM D445	15.5	15.1	15.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06228141 **Received** : 03 Jul 2024  
**Lab Number** : 06228141 **Tested** : 08 Jul 2024  
**Unique Number** : 11111634 **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: