



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 6

Component
Diesel Engine

Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06237088	TR05148371	---
Sample Date		Client Info		09 Jul 2024	05 Dec 2020	---
Machine Age	mls	Client Info		170868	0	---
Oil Age	mls	Client Info		30000	15000	---
Filter Age	mls	Client Info		15000	15000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	30	▲ 117	---
Chromium	ppm	ASTM D5185m	>4	1	3	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	3	3	---
Lead	ppm	ASTM D5185m	>45	2	8	---
Copper	ppm	ASTM D5185m	>85	2	▲ 99	---
Tin	ppm	ASTM D5185m	>4	1	6	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

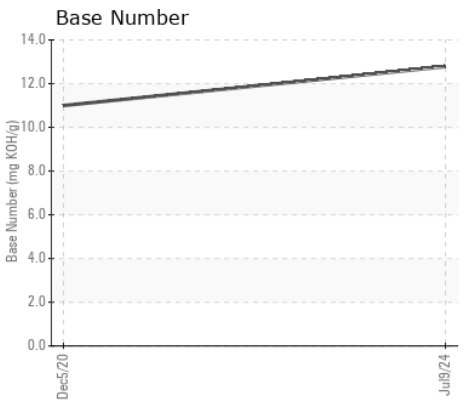
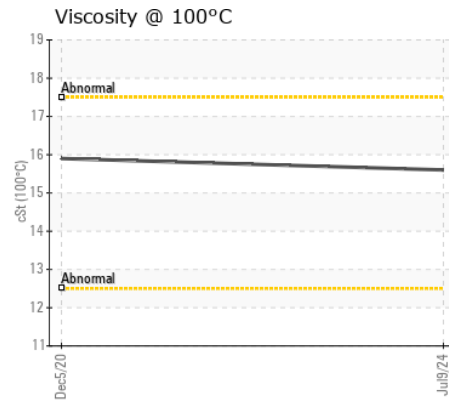
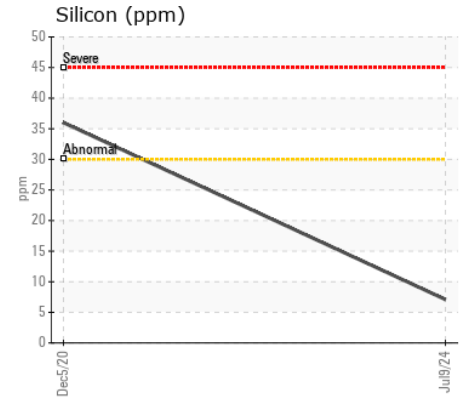
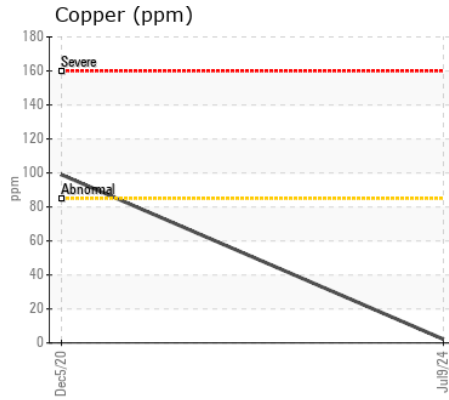
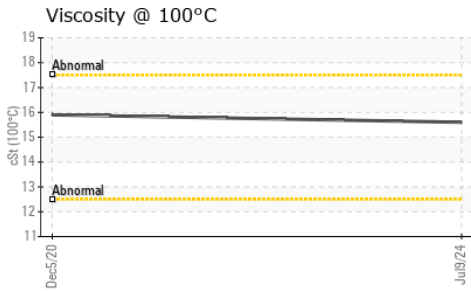
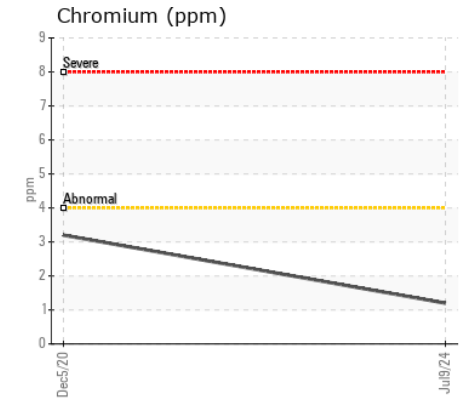
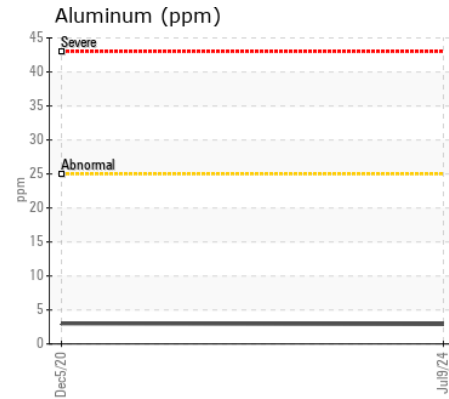
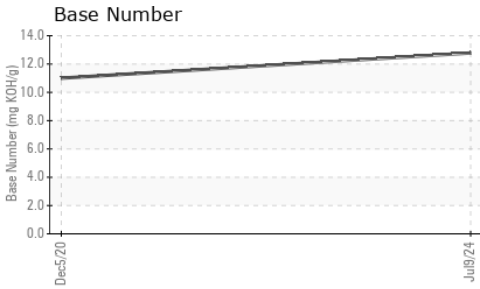
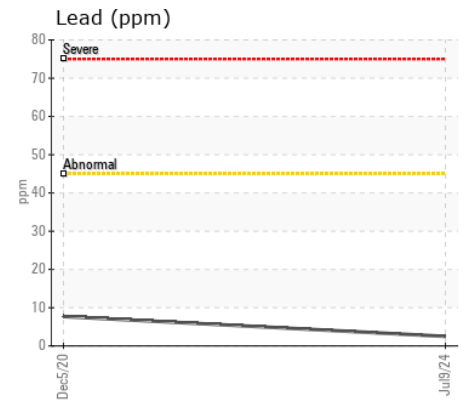
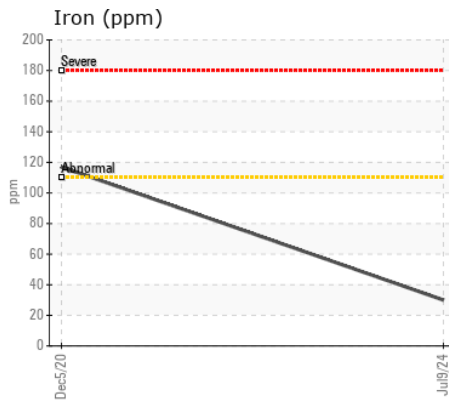
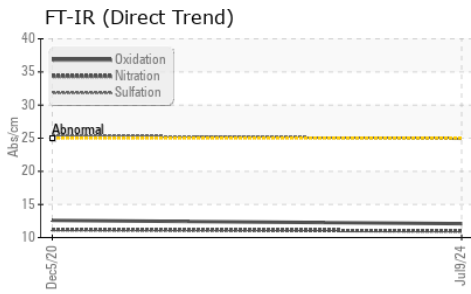
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	7	▲ 36	---
Potassium	ppm	ASTM D5185m	>20	2	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	2.1	2.4	---
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	25.4	---
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		<1	6	---
Boron	ppm	ASTM D5185m		7	4	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		134	118	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m		31	50	---
Calcium	ppm	ASTM D5185m		4466	4508	---
Phosphorus	ppm	ASTM D5185m		893	925	---
Zinc	ppm	ASTM D5185m		1111	1160	---
Sulfur	ppm	ASTM D5185m		4069	3691	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	12.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		12.78	11.0	---
Visc @ 100°C	cSt	ASTM D445		15.6	15.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06237088
Lab Number : 06237088
Unique Number : 11125922
Test Package : MOB 2

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

JERRY TRENTHAM TRUCKING
 6266 STATE HWY 34, SUITE C
 GLEN ALLEN, MO
 US 63751
 Contact: JONNY KENT

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: