



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-4983
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019338	RPL0015782	RPL0013510
Sample Date		Client Info		20 Apr 2024	14 Oct 2023	01 Jul 2023
Machine Age	mls	Client Info		50542	25897	13702
Oil Age	mls	Client Info		0	25897	13702
Filter Age	mls	Client Info		0	25897	13702
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	56	127	54
Chromium	ppm	ASTM D5185m	>4	2	3	1
Nickel	ppm	ASTM D5185m	>2	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	14	24	15
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	11	85	61
Tin	ppm	ASTM D5185m	>4	<1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

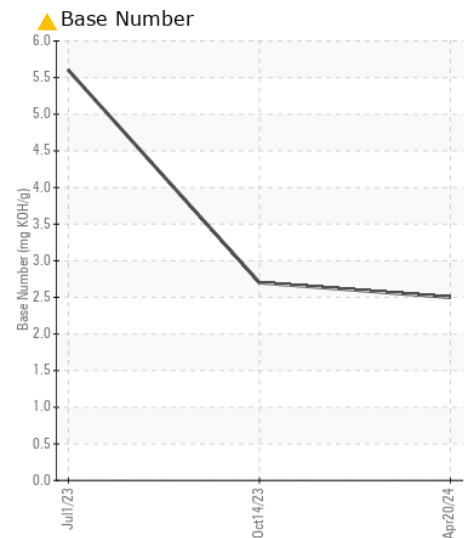
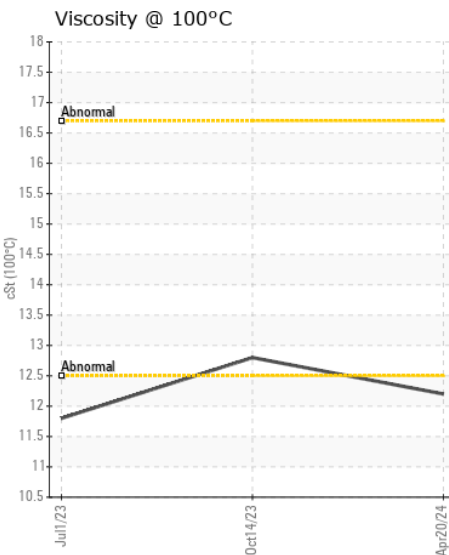
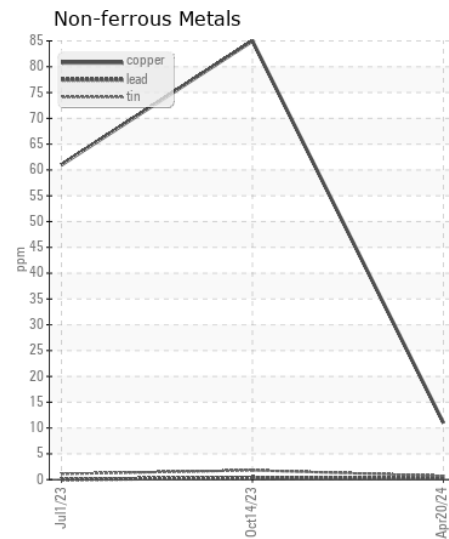
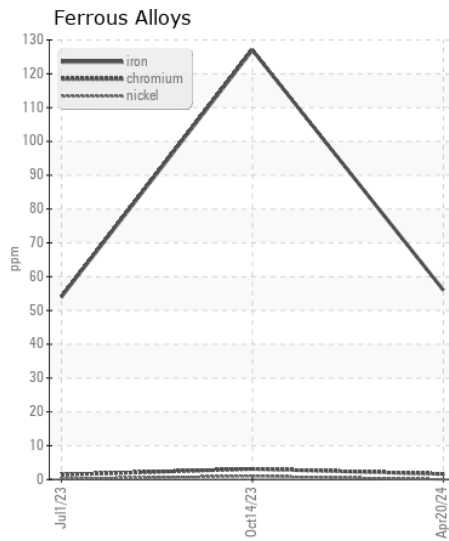
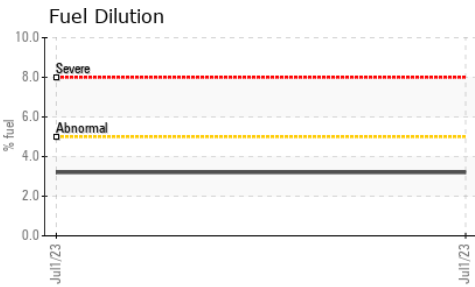
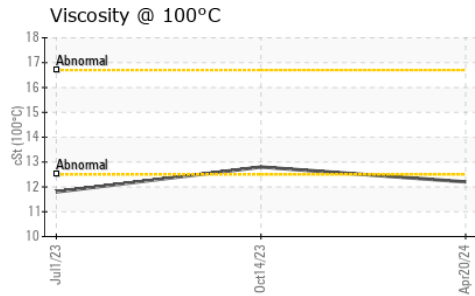
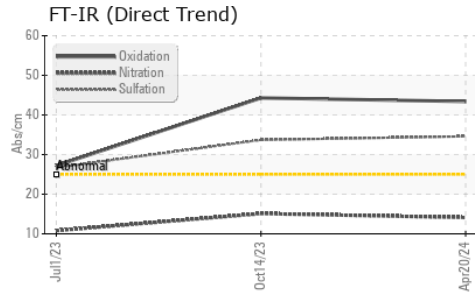
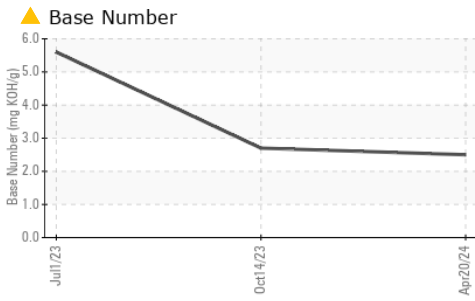
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	11	▲ 42	39
Potassium	ppm	ASTM D5185m	>20	34	39	25
Fuel	%	ASTM D3524	>5	<1.0	<1.0	▲ 3.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	14.1	15.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.6	33.7	26.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN level is low.

Sodium	ppm	ASTM D5185m		2	4	5
Boron	ppm	ASTM D5185m		8	78	198
Barium	ppm	ASTM D5185m		0	5	2
Molybdenum	ppm	ASTM D5185m		70	125	115
Manganese	ppm	ASTM D5185m		2	9	6
Magnesium	ppm	ASTM D5185m		954	698	755
Calcium	ppm	ASTM D5185m		1191	1559	1619
Phosphorus	ppm	ASTM D5185m		1029	743	688
Zinc	ppm	ASTM D5185m		1234	903	873
Sulfur	ppm	ASTM D5185m		3179	2790	2863
Oxidation	Abs/.1mm	*ASTM D7414	>25	43.4	44.3	27.2
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.5	▲ 2.7	5.6
Visc @ 100°C	cSt	ASTM D445		12.2	12.8	11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019338 **Received** : 10 May 2024
Lab Number : 06175323 **Tested** : 13 May 2024
Unique Number : 11021376 **Diagnosed** : 13 May 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
 carrolag@rushenterprises.com

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)

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F: