



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 8464531
Component
Diesel Engine
Fluid
MOBIL DELVAC 1 5W40 (46 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

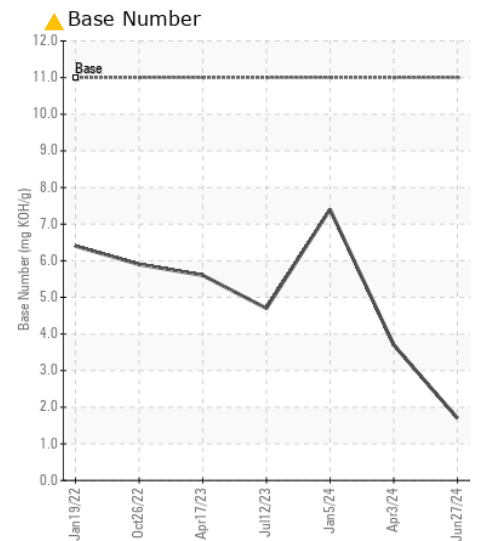
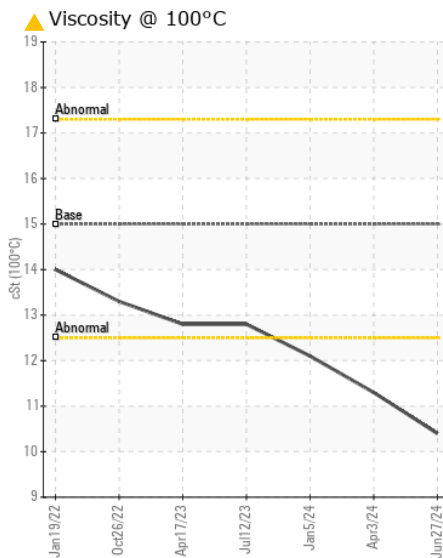
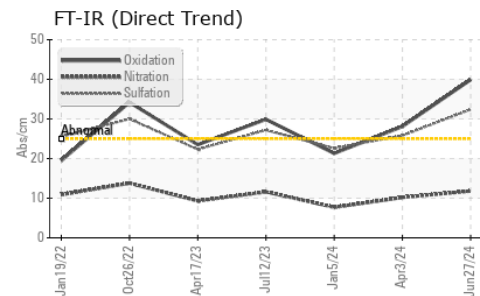
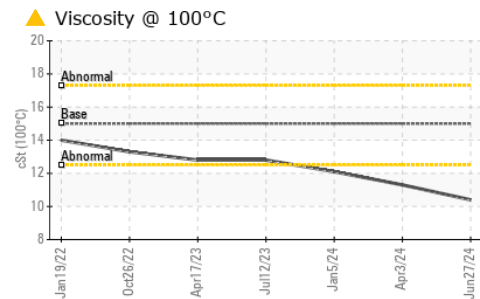
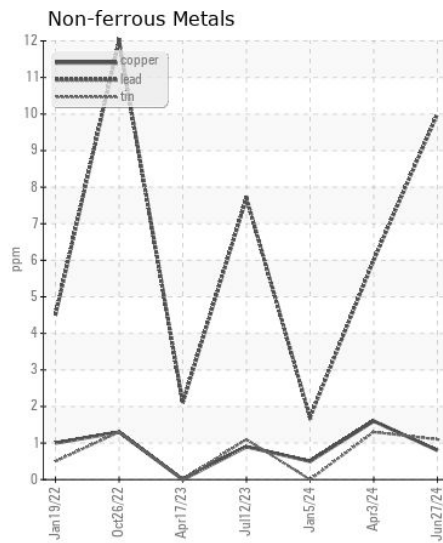
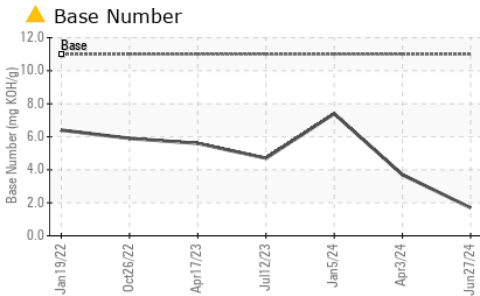
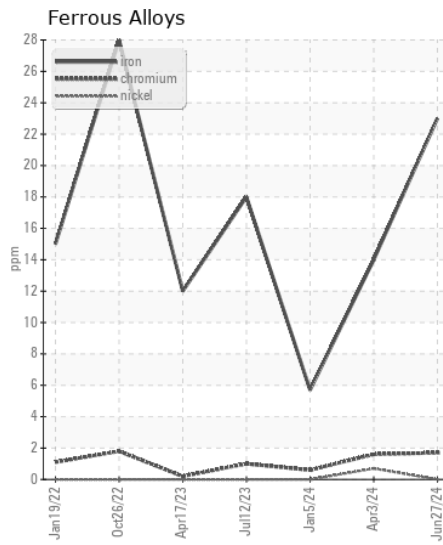
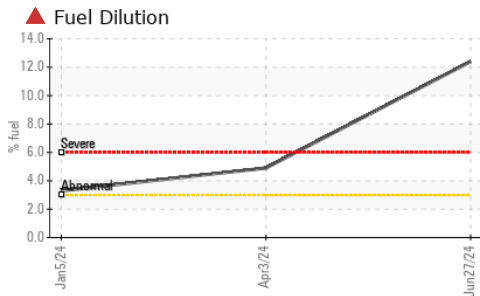
CONTAMINATION

There is a high amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021908	RPL0019367	RPL0017409
Sample Date		Client Info		27 Jun 2024	03 Apr 2024	05 Jan 2024
Machine Age	mls	Client Info		162316	154910	148185
Oil Age	mls	Client Info		19624	6725	5493
Filter Age	mls	Client Info		19624	6725	5493
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	MARGINAL
Iron	ppm	ASTM D5185m	>165	23	14	6
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	14	12	3
Lead	ppm	ASTM D5185m	>150	10	6	2
Copper	ppm	ASTM D5185m	>90	<1	2	<1
Tin	ppm	ASTM D5185m	>5	1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	6	5	3
Potassium	ppm	ASTM D5185m	>20	42	38	7
Fuel	%	ASTM D3524	>3.0	▲ 12.4	▲ 4.9	▲ 3.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.5	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.2	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	32.4	25.8	22.6
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
Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m	291	6	1	1
Barium	ppm	ASTM D5185m	0.0	0	2	0
Molybdenum	ppm	ASTM D5185m	8.0	56	58	55
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	624	839	867	920
Calcium	ppm	ASTM D5185m	2158	985	1032	994
Phosphorus	ppm	ASTM D5185m	1132	870	955	1014
Zinc	ppm	ASTM D5185m	1300	1157	1141	1188
Sulfur	ppm	ASTM D5185m	3616	3313	3172	3107
Oxidation	Abs/.1mm	*ASTM D7414	>25	39.9	28.1	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	▲ 1.7	▲ 3.7	7.4
Visc @ 100°C	cSt	ASTM D445	15.0	▲ 10.4	▲ 11.3	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021908 **Received** : 12 Jul 2024
Lab Number : 06234470 **Tested** : 16 Jul 2024
Unique Number : 11123304 **Diagnosed** : 16 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
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 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: