



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 8463829
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (18 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021049	RPL0017945	RPL0016836
Sample Date		Client Info		08 Jun 2024	15 Mar 2024	08 Dec 2023
Machine Age	mls	Client Info		135957	133206	130197
Oil Age	mls	Client Info		12394	3009	6634
Filter Age	mls	Client Info		12394	3009	6634
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	27	19	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	26	24	14
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	2	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

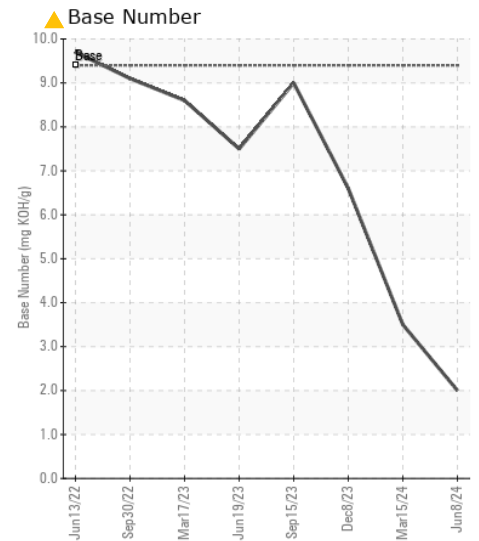
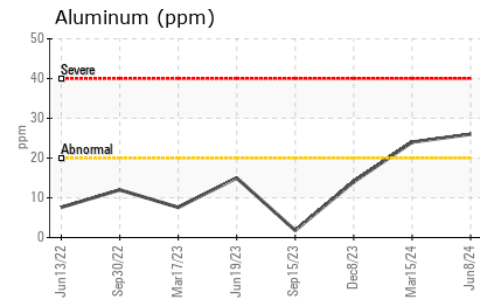
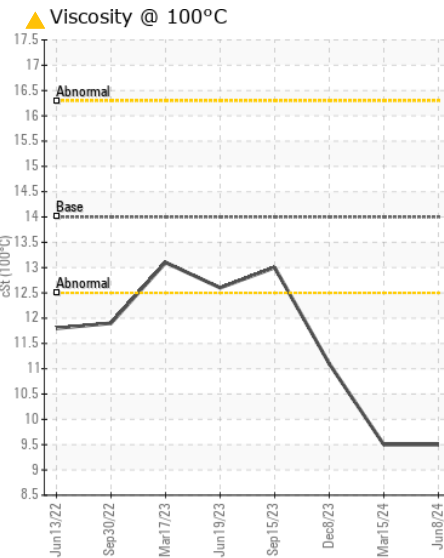
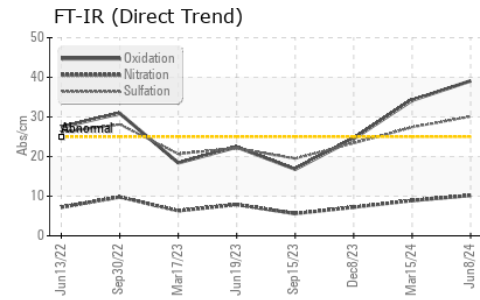
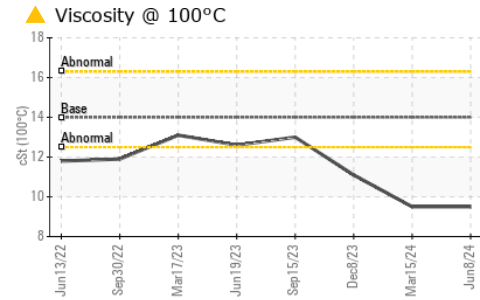
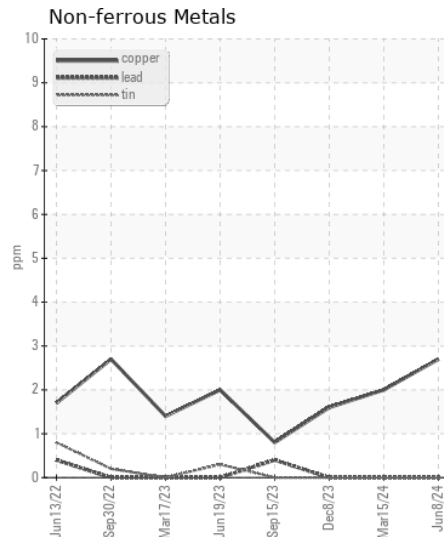
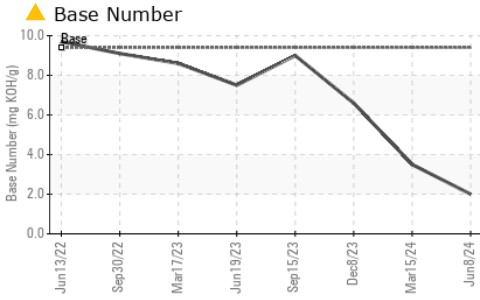
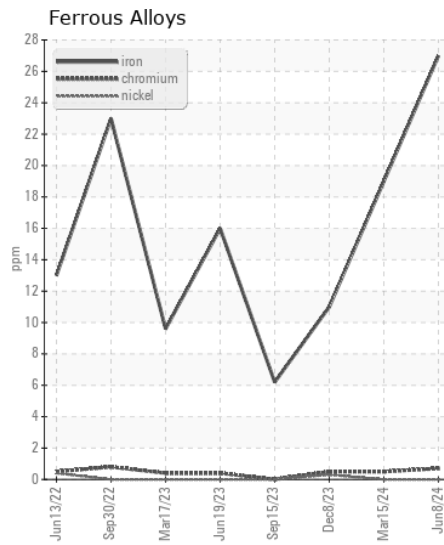
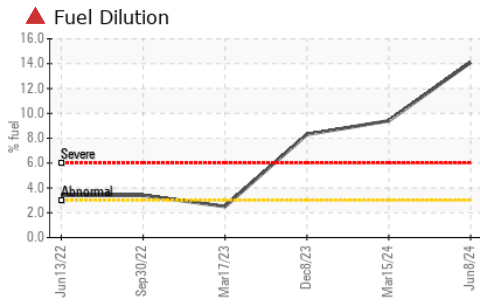
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	4
Potassium	ppm	ASTM D5185m	>20	62	51	19
Fuel	%	ASTM D3524	>3.0	▲ 14.1	▲ 9.4	▲ 8.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.9	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.1	27.4	23.4
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

Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		2	<1	1
Boron	ppm	ASTM D5185m	0	4	3	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	54	52	52
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	892	884	874
Calcium	ppm	ASTM D5185m		1038	974	916
Phosphorus	ppm	ASTM D5185m		887	896	920
Zinc	ppm	ASTM D5185m		1130	1118	1165
Sulfur	ppm	ASTM D5185m		3288	3251	2892
Oxidation	Abs/.1mm	*ASTM D7414	>25	39.1	34.2	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 2.0	▲ 3.5	6.6
Visc @ 100°C	cSt	ASTM D445	14	▲ 9.5	▲ 9.5	▲ 11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021049 **Received** : 18 Jun 2024
Lab Number : 06213179 **Tested** : 20 Jun 2024
Unique Number : 11086043 **Diagnosed** : 20 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
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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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