



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Area
(9f72617) {UNASSIGNED}

Machine Id
PETERBILT 8464105

Component
Diesel Engine

Fluid
MOBIL DELVAC ELITE 15W40 (48 QTS)

RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021018	RPL0019435	RPL0016863
Sample Date		Client Info		11 Jun 2024	13 Mar 2024	15 Dec 2023
Machine Age	mls	Client Info		190465	181215	171839
Oil Age	mls	Client Info		29089	161376	10463
Filter Age	mls	Client Info		29089	0	10463
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	45	21	11
Chromium	ppm	ASTM D5185m	>5	3	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	4	2
Lead	ppm	ASTM D5185m	>150	11	8	3
Copper	ppm	ASTM D5185m	>90	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0	<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

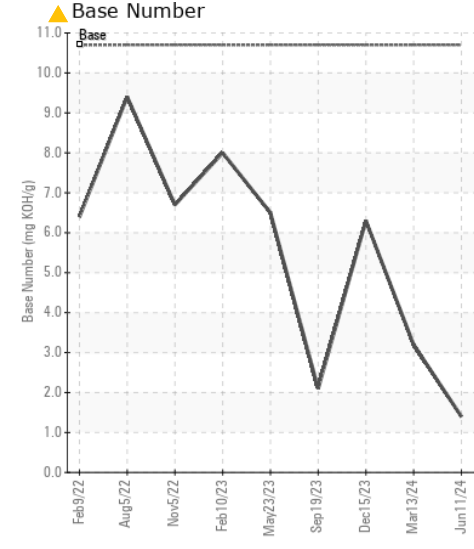
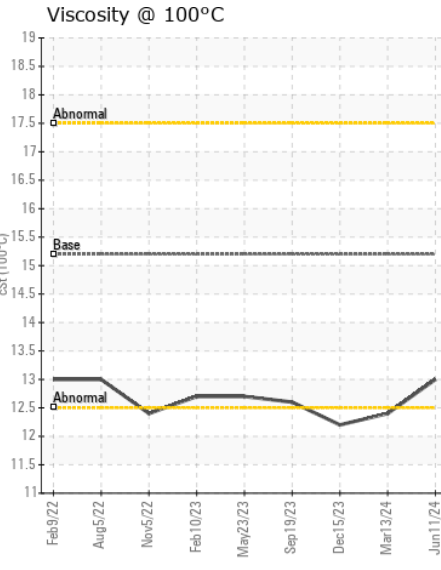
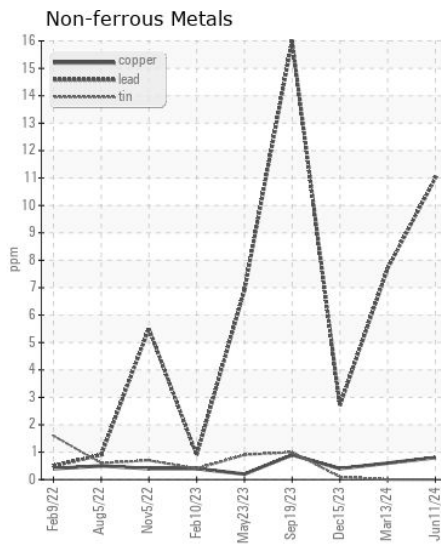
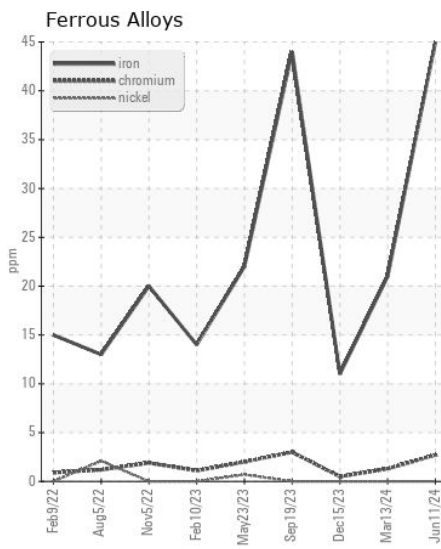
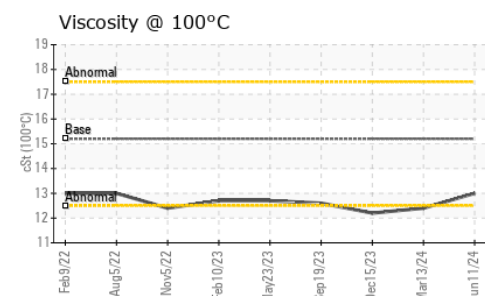
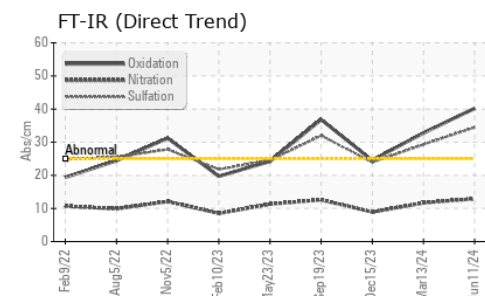
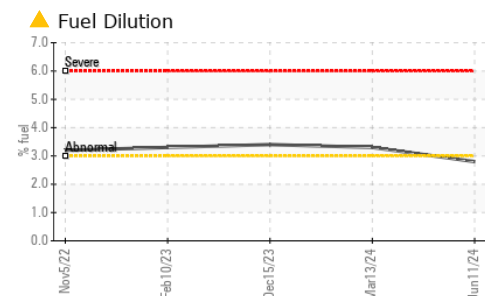
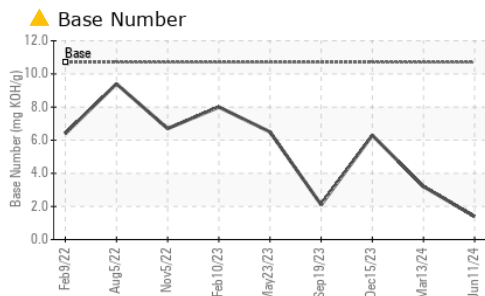
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>35	11	7	5
Potassium	ppm	ASTM D5185m	>20	13	7	6
Fuel	%	ASTM D3524	>3.0	▲ 2.8	▲ 3.3	▲ 3.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.6	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.9	11.7	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.5	29.3	23.9
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. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185m		3	2	0
Boron	ppm	ASTM D5185m		1	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		65	60	60
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1076	1000	926
Calcium	ppm	ASTM D5185m		1243	1127	1052
Phosphorus	ppm	ASTM D5185m		1077	973	887
Zinc	ppm	ASTM D5185m		1370	1268	1200
Sulfur	ppm	ASTM D5185m		3628	3617	3217
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.2	32.8	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	▲ 1.4	3.2	6.3
Visc @ 100°C	cSt	ASTM D445	15.2	13.0	▲ 12.4	▲ 12.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021018 **Received** : 18 Jun 2024
Lab Number : 06213176 **Tested** : 20 Jun 2024
Unique Number : 11086040 **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
 carrolag@rushenterprises.com

Certificate L2367
 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)