



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-5280
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020415	RPL0017920	RPL0016793
Sample Date		Client Info		14 May 2024	23 Feb 2024	25 Nov 2023
Machine Age	mls	Client Info		4578	3312	1916
Oil Age	mls	Client Info		4578	3312	1916
Filter Age	mls	Client Info		4578	0	1916
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	117	91	73
Chromium	ppm	ASTM D5185m	>4	4	3	2
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	5	2
Lead	ppm	ASTM D5185m	>45	1	0	1
Copper	ppm	ASTM D5185m	>85	115	113	120
Tin	ppm	ASTM D5185m	>4	2	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

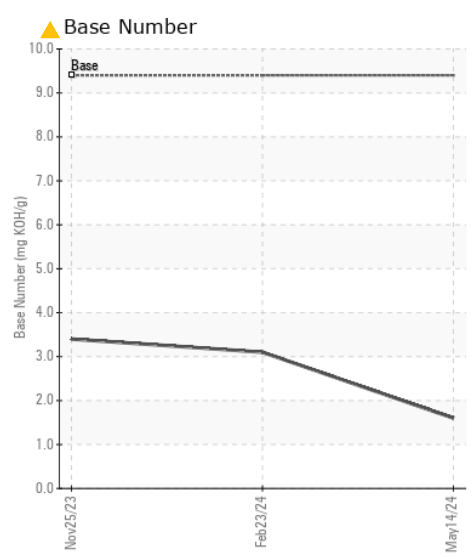
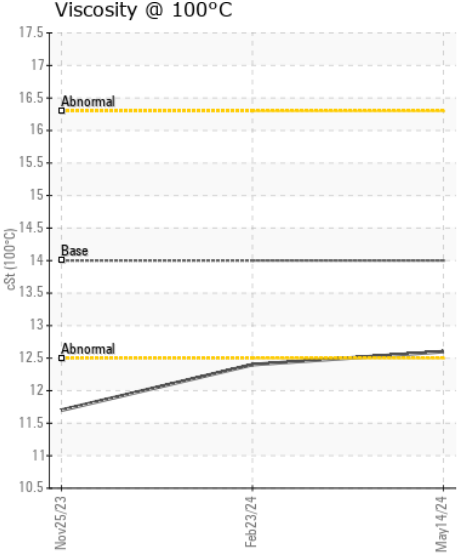
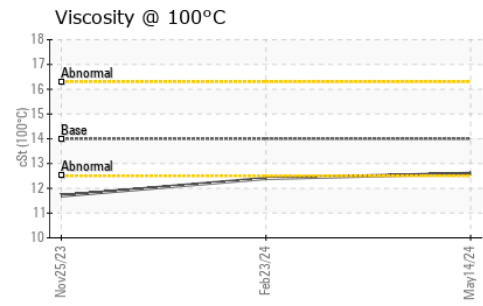
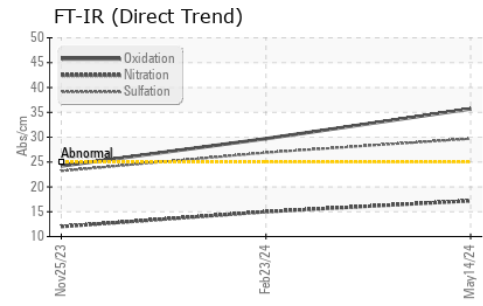
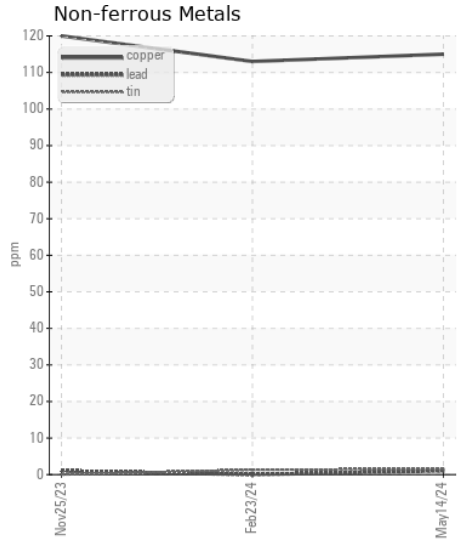
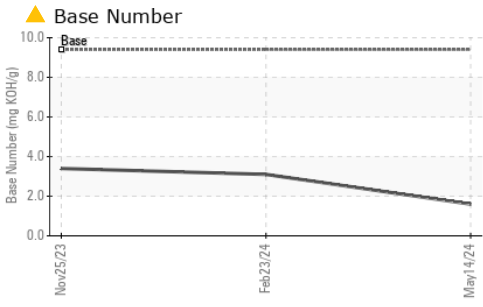
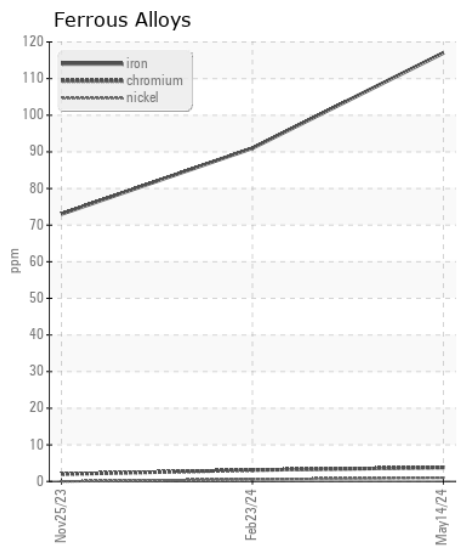
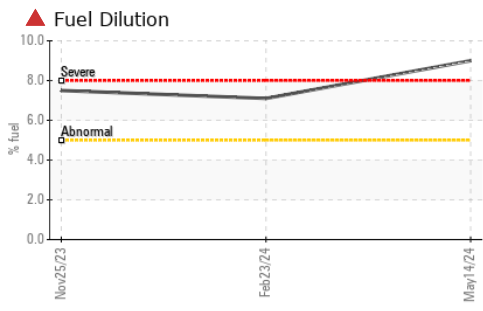
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>30	44	45	47
Potassium	ppm	ASTM D5185m	>20	4	2	2
Fuel	%	ASTM D3524	>5	▲ 9.0	▲ 7.1	▲ 7.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	17.2	15.0	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7	26.9	23.2
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		6	5	4
Boron	ppm	ASTM D5185m	0	4	4	2
Barium	ppm	ASTM D5185m	0	4	7	0
Molybdenum	ppm	ASTM D5185m	0	48	52	53
Manganese	ppm	ASTM D5185m		7	6	6
Magnesium	ppm	ASTM D5185m	0	805	865	864
Calcium	ppm	ASTM D5185m		911	942	966
Phosphorus	ppm	ASTM D5185m		785	915	765
Zinc	ppm	ASTM D5185m		1057	1150	1064
Sulfur	ppm	ASTM D5185m		2444	2432	2572
Oxidation	Abs/.1mm	*ASTM D7414	>25	35.7	29.7	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 1.6	3.1	3.4
Visc @ 100°C	cSt	ASTM D445	14	12.6	▲ 12.4	▲ 11.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020415 **Received** : 24 May 2024
Lab Number : 06190198 **Tested** : 30 May 2024
Unique Number : 11046950 **Diagnosed** : 30 May 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
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 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)