



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 8465065
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021031	RPL0017934	RPL0016378
Sample Date		Client Info		05 Jun 2024	07 Mar 2024	08 Nov 2023
Machine Age	mls	Client Info		15141	10755	6714
Oil Age	mls	Client Info		15141	10755	6714
Filter Age	mls	Client Info		15141	0	6714
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	51	33	17
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	8	8	7
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	14	12	9
Tin	ppm	ASTM D5185m	>4	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

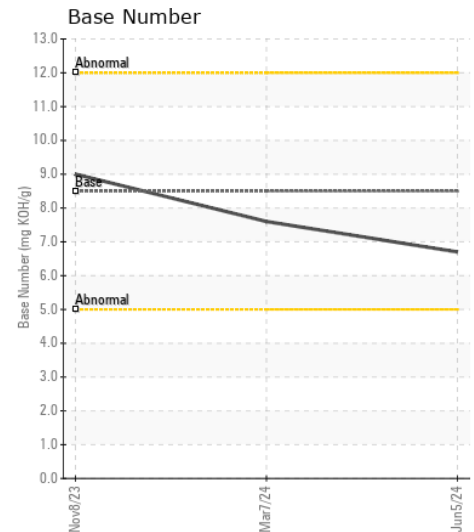
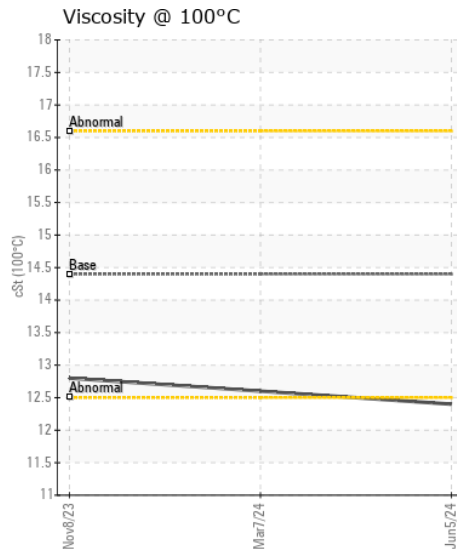
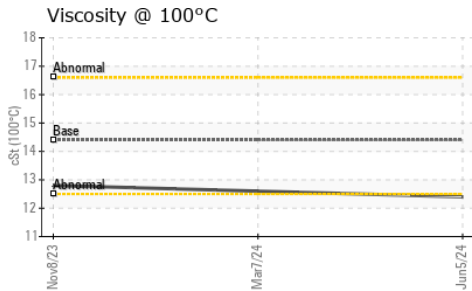
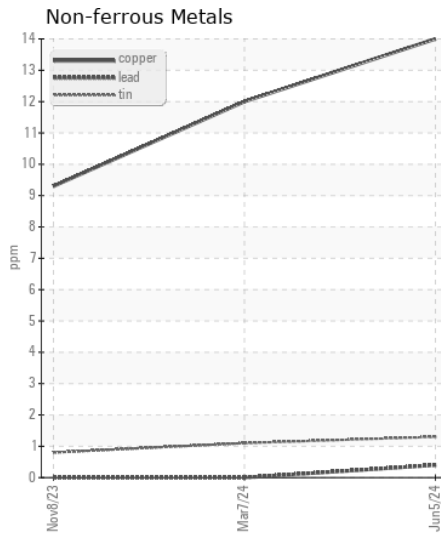
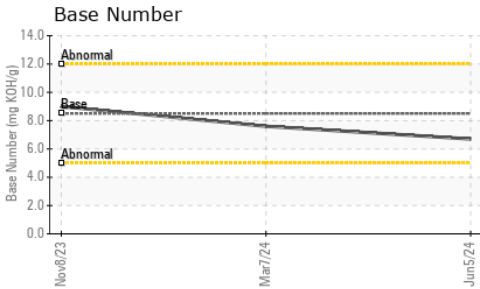
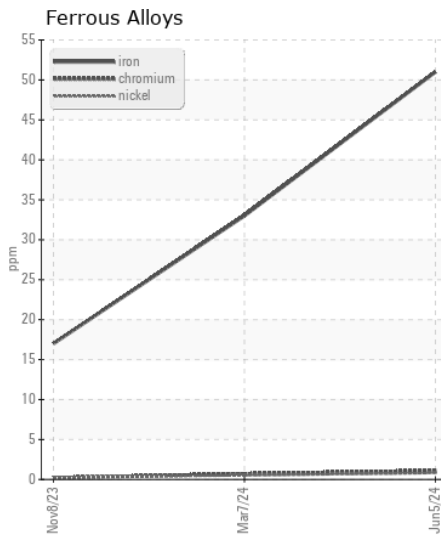
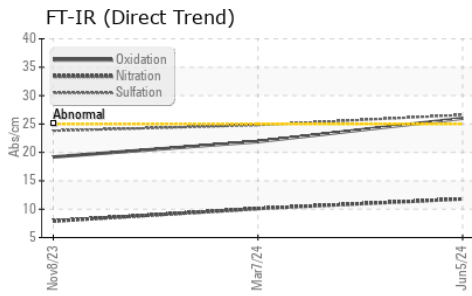
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	18	19	17
Potassium	ppm	ASTM D5185m	>20	4	6	2
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.1	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	24.8	23.8
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 result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	4	4	2
Boron	ppm	ASTM D5185m	250	145	186	237
Barium	ppm	ASTM D5185m	10	5	3	4
Molybdenum	ppm	ASTM D5185m	100	103	100	98
Manganese	ppm	ASTM D5185m		10	7	6
Magnesium	ppm	ASTM D5185m	450	600	639	665
Calcium	ppm	ASTM D5185m	3000	1423	1452	1455
Phosphorus	ppm	ASTM D5185m	1150	585	680	628
Zinc	ppm	ASTM D5185m	1350	779	851	835
Sulfur	ppm	ASTM D5185m	4250	2245	2469	2302
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.0	21.9	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7	7.6	9.0
Visc @ 100°C	cSt	ASTM D445	14.4	12.4	12.6	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021031 **Received** : 18 Jun 2024
Lab Number : 06213150 **Tested** : 20 Jun 2024
Unique Number : 11086014 **Diagnosed** : 20 Jun 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FUELDILUTION)

RTL PACLEASE - 7006 - Pico Rivera
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 Pico Rivera, CA
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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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F: