



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT JP-39
Component
Diesel Engine
Fluid
10W30 DURAMAX (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DCM2012946	WCM2124692	---
Sample Date		Client Info		11 May 2016	22 May 2015	---
Machine Age	mls	Client Info		161985	105920	---
Oil Age	mls	Client Info		42826	46307	---
Filter Age	mls	Client Info		42826	46307	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	38	47	---
Chromium	ppm	ASTM D5185m	>20	1	2	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	1	5	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	16	24	---
Lead	ppm	ASTM D5185m	>40	<1	4	---
Copper	ppm	ASTM D5185m	>330	5	7	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

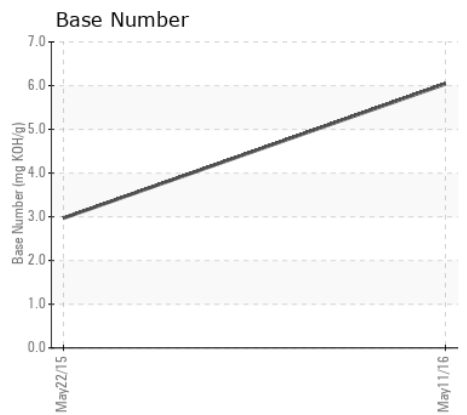
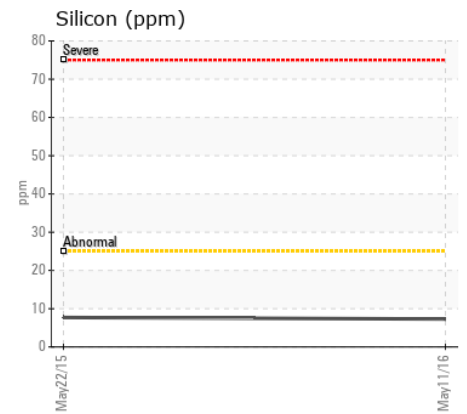
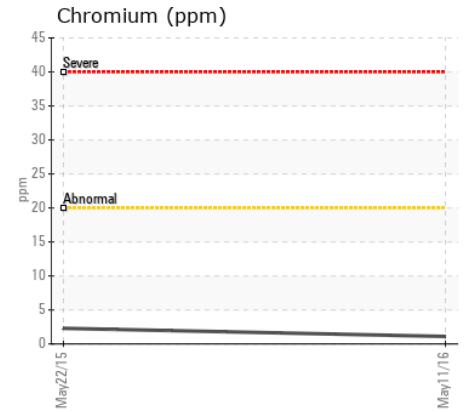
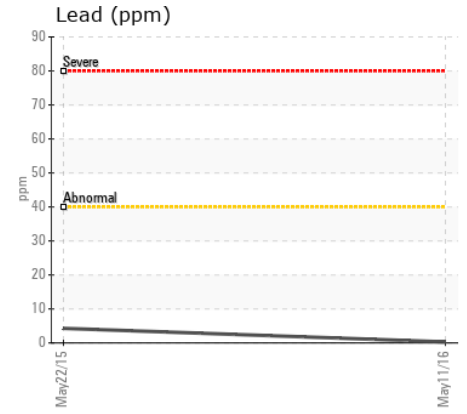
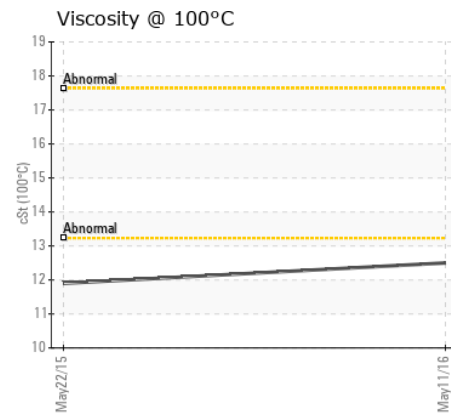
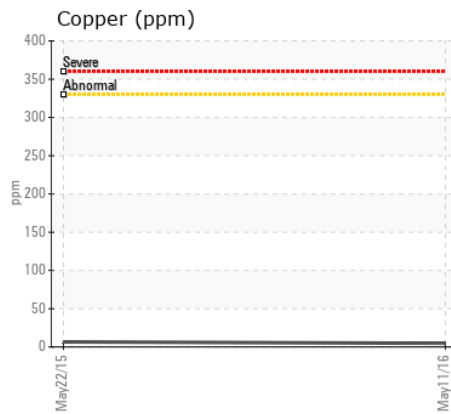
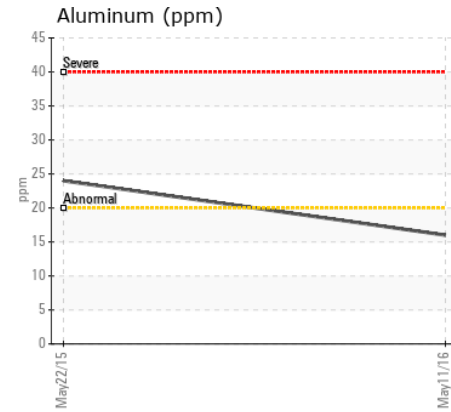
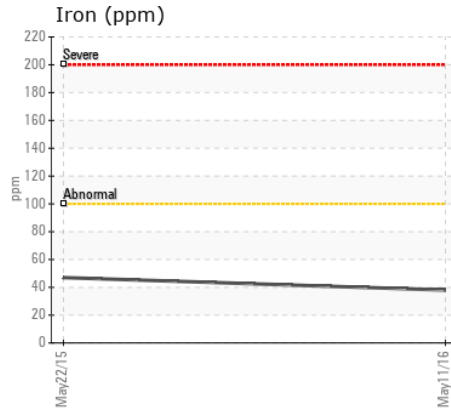
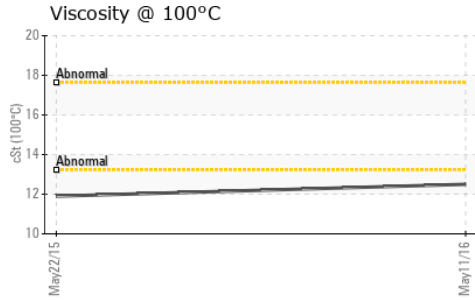
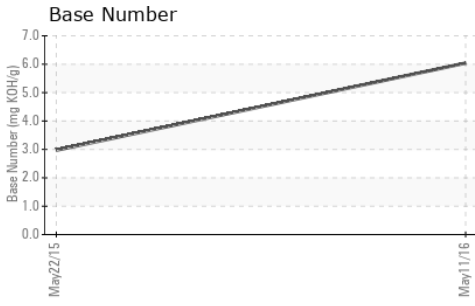
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>25	7	8	---
Potassium	ppm	ASTM D5185m	>20	11	37	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1	1.7	---
Nitration	Abs/cm	*ASTM D7624		8.	12.	---
Sulfation	Abs/.1mm	*ASTM D7415		21.	27.	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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		3	4	---
Boron	ppm	ASTM D5185m		8	6	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		5	12	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		104	102	---
Calcium	ppm	ASTM D5185m		2126	1994	---
Phosphorus	ppm	ASTM D5185m		896	852	---
Zinc	ppm	ASTM D5185m		1030	1053	---
Sulfur	ppm	ASTM D5185m		3240	873	---
Oxidation	Abs/.1mm	*ASTM D7414		14.	26.	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.04	▲ 2.97	---
Visc @ 100°C	cSt	ASTM D445		12.5	11.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DCM2012946
Lab Number : 03988251
Unique Number : 7408726
Test Package : MOB 2

Received : 19 May 2016
Tested : 21 May 2016
Diagnosed : 21 May 2016 - Wes Davis

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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)