

OIL ANALYSIS REPORT

Machine Id **1997 PETERBILT 97 PETE** Component **Diesel Engine** Fluid **TRC MOLY XL PRO-SPEC IV 15W40 (10 GAL)**

RECOMMENDATION	
We advise that you check for possible	e coolan

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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All component wear rates are normal.

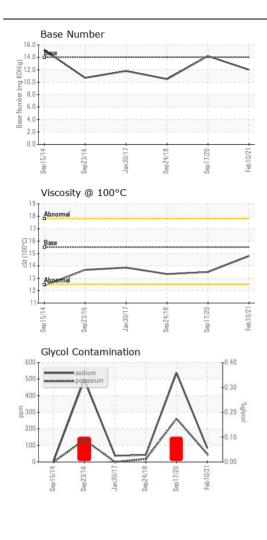
CONTAMINATION

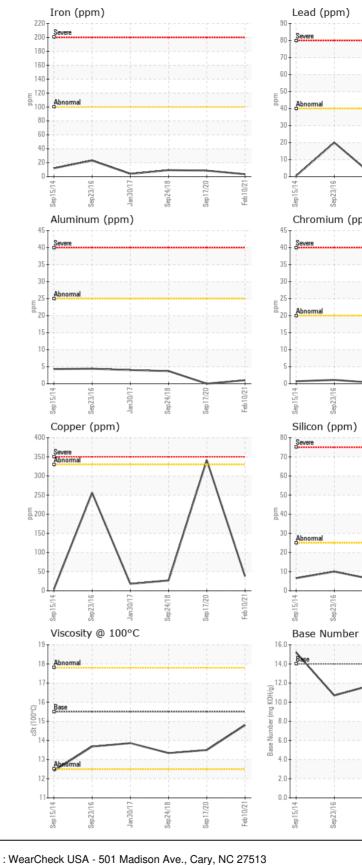
Sodium and/or potassium levels remain high.

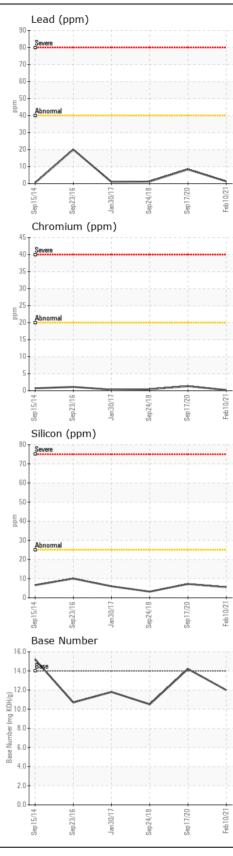
FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05190412	TR05132498	TR04564977
Sample Date		Client Info		10 Feb 2021	17 Sep 2020	24 Sep 2018
Machine Age	mls	Client Info		424884	524085	520975
Oil Age	mls	Client Info		800	3110	3541
Filter Age	mls	Client Info		800	3110	3541
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>100	3	8	9
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	0	4
Lead	ppm	ASTM D5185m	>40	1	8	1
Copper	ppm	ASTM D5185m	>330	38	4 341	27
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	7	3
Potassium	ppm	ASTM D5185m	>20	4 8	A 261	18
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982	-	NEG	0.10	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8	13.6	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.9	18.8
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
Sodium	ppm	ASTM D5185m		A 83	▲ 538	43
Boron	ppm	ASTM D5185m		4	7	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		116	160	166
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		76	765	773
Calcium	ppm	ASTM D5185m	1300	3587	1456	1660
Phosphorus	ppm	ASTM D5185m		878	1163	971
Zinc	ppm	ASTM D5185m	1300	924	1088	1118
Sulfur	ppm	ASTM D5185m		3558	3264	3556
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.4	15.4	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	14	12.0	14.2	10.5
Visc @ 100°C	cSt	ASTM D445	15.5	14.8	13.5	13.34
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 Unique Number
 : 9380710
 Diagnosed
 : 01 Mar 2021 - Jonathan Hester

 Certificate 12367
 Test Package
 <th: MOB 2</th>
 Contra

 To discuss this sample report, contact Customer Service at 1-800-827-0711.
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 * - 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)

Received

Tested

: 25 Feb 2021

:01 Mar 2021

PHIL HARDER 57803 350TH STREET MOUNTAIN LAKE, MN US 56159 Contact: PHILIP HARDER philbren@frontiernet.net T: 5(07)227-6074 012) F:

Laboratory

Sample No.

Lab Number : 05190412

: TR05190412

Contact/Location: PHILIP HARDER - PHIMOU