

### **PROBLEM SUMMARY**

# Sample Rating Trend VISCOSITY

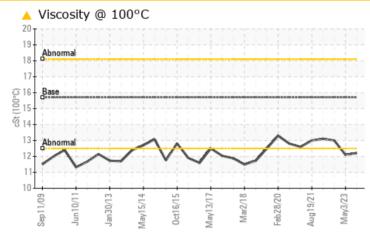
# 2007 PETERBILT 9627E

**Diesel Engine** 

#### Fluid PURUS SYNTHETIC BLEND 15W40 (32 QTS)

#### COMPONENT CONDITION SUMMARY

Resample at the next service interval to monitor.



RECOMMENDATION	PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Visc @ 100°C	cSt	ASTM D445	15.7	<u> </u>	<b>12.1</b>	13.0

Customer Id: RUIRUI Sample No.: KL0013230 Lab Number: 05966134 Test Package: FLEET

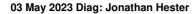


To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

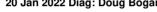


#### 08 Jul 2022 Diag: Don Baldridge

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





Report Id: RUIRUI [WUSCAR] 05966134 (Generated: 10/03/2023 13:36:49) Rev: 1



2007 PETERBILT 9627E

PURUS SYNTHETIC BLEND 15W40 (32 QTS)

Machine Id

Component **Diesel Engine** 

Fluid

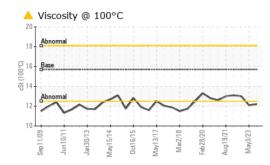
### **OIL ANALYSIS REPORT**

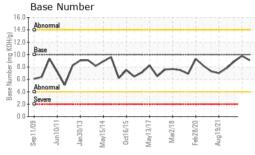
# Sample Rating Trend VISCOSITY

UNUS STATIETIC DEEND 15W40 (52 GTS)			p2009 Jun2011 Jun2013 Mmy2014 Oct2015 Mmy2017 Mmz2016 Feb2020 Aug2021 Mmy2023				
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KL0013230	KL0012170	KL0008596
esample at the next service interval to monitor.	Sample Date		Client Info		06 Sep 2023	03 May 2023	08 Jul 2022
ear	Machine Age	mls	Client Info		9722	376644	360700
component wear rates are normal.	Oil Age	mls	Client Info		0	0	0
ontamination	Oil Changed		Client Info		N/A	N/A	N/A
ere is no indication of any contamination in the	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>5	<1.0	▲ 3.1	<1.0
cates that there is suitable alkalinity remaining in	Glycol		WC Method		NEG	NEG	NEG
oil. Confirm oil type.	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>110	27	13	100
	Chromium	ppm	ASTM D5185m	>4	1	0	3
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	4	▲ 5	<u> </u>
	Lead	ppm	ASTM D5185m	>45	3	<1	16
	Copper	ppm	ASTM D5185m	>85	8	2	17
	Tin	ppm	ASTM D5185m	>4	2	0	3
	Antimony	ppm	ASTM D5185m				
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		19	68	13
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		80	50	67
	Manganese	ppm	ASTM D5185m		1	0	2
	Magnesium	ppm	ASTM D5185m		1130	651	1004
	Calcium	ppm	ASTM D5185m		1330	1638	1226
	Phosphorus	ppm	ASTM D5185m		1274	852	1081
	Zinc	ppm	ASTM D5185m		1536	1043	1361
	Sulfur	ppm	ASTM D5185m		3903	3070	3590
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>30	29	44	<b>3</b> 2
	Sodium	ppm	ASTM D5185m		5	1	4
	Soulum	ppin					
	Potassium	ppm	ASTM D5185m	>20	4	2	3
				>20 limit/base	4	2 history1	3 history2
	Potassium		ASTM D5185m	limit/base	4		
	Potassium INFRA-RED	ppm	ASTM D5185m method	limit/base >3	4 current	history1	history2
	Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base >3 >20	4 current 0.4	history1 0.2	history2 0.6
	Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >3 >20	4 current 0.4 7.2 20.6	history1 0.2 7.0	history2 0.6 12.0
	Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >3 >20 >30 limit/base	4 current 0.4 7.2 20.6	history1 0.2 7.0 21.4	history2 0.6 12.0 27.8

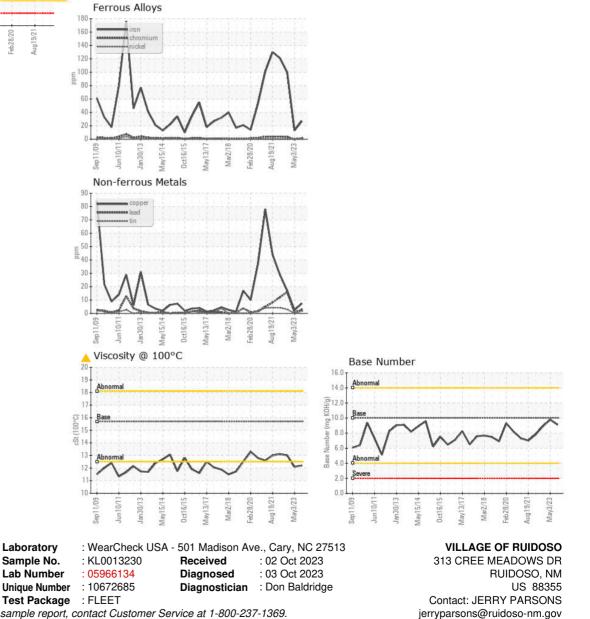


## **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	<b>12.2</b>	<b>▲</b> 12.1	13.0
GRAPHS						



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)

Certificate L2367

Contact/Location: JERRY PARSONS - RUIRUI

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