

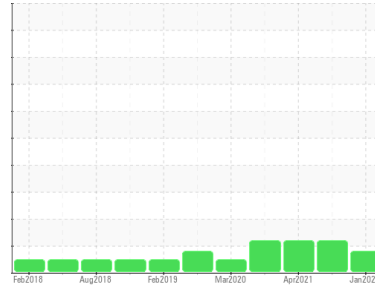


# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**

Area  
**2H28**  
 Machine Id  
**PETERBILT 367 TCK6046 (S/N 1XPTP4EX6JD482553)**  
 Component  
**Transmission (Auto)**  
 Fluid  
**SAE 50W (40 QTS)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

The condition of the fluid is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ARI0007215</b>	ARI05275928	ARI05222058
Sample Date	Client Info		<b>02 Jan 2024</b>	08 Jun 2021	05 Apr 2021
Machine Age	hrs	Client Info	<b>4120</b>	89596	88046
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >160	<b>▲ 345</b>	139	131
Chromium	ppm	ASTM D5185m >5	<b>3</b>	1	<1
Nickel	ppm	ASTM D5185m >5	<b>3</b>	<1	2
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >50	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >225	<b>42</b>	13	10
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>195</b>	128	146
Barium	ppm	ASTM D5185m	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>8</b>	4	4
Magnesium	ppm	ASTM D5185m	<b>3</b>	3	2
Calcium	ppm	ASTM D5185m	<b>58</b>	58	62
Phosphorus	ppm	ASTM D5185m	<b>1103</b>	1125	1056
Zinc	ppm	ASTM D5185m	<b>0</b>	7	8
Sulfur	ppm	ASTM D5185m	<b>251</b>	230	263

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	6	4
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	2	1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	0

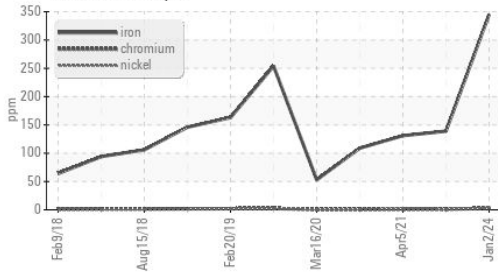
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	<b>▲ MODER</b>	<b>▲ MODER</b>
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

### ▲ Ferrous Alloys



### FLUID PROPERTIES

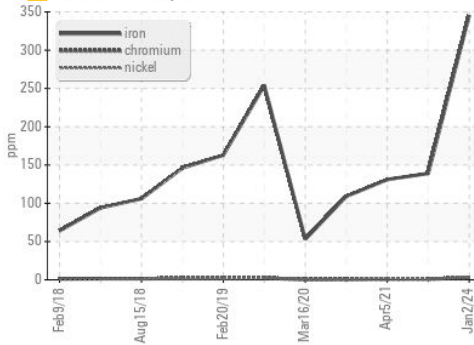
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	215	97.1	98.0

### SAMPLE IMAGES

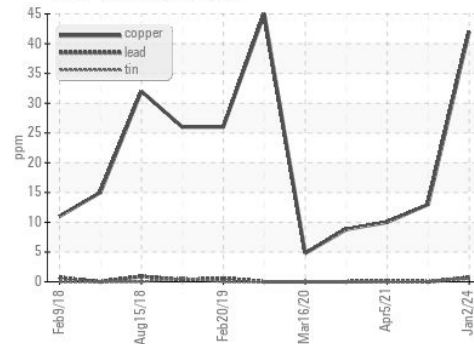
method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

### GRAPHS

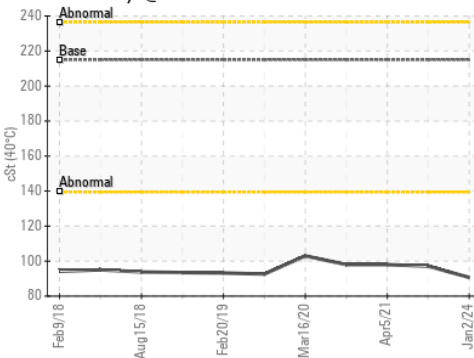
### ▲ Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ARI0007215 **Received** : 08 Jan 2024  
**Lab Number** : 06054413 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820362 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST

**INSITUFORM TECHNOLOGIES, INC**  
 17988 EDISON AVE.  
 CHESTERFIELD, MO  
 US 63005  
 Contact: ANDY RICHTER  
 ARICHTER@INSITUFORM.COM  
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 F:

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)