



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**2H28**

Machine Id

**PETERBILT REEFER TRK CV 3A 348 TK 1 RTK9845 (S/N 2NP3XJ0XXHM443145)**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ARI06124507</b>	ARI010533	ARI013938
Sample Date		Client Info		<b>20 Mar 2024</b>	12 Sep 2018	21 May 2018
Machine Age	mls	Client Info		<b>154632</b>	49914	41452
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>21</b>	20	22
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	23	28
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>85	<b>2</b>	4	9
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

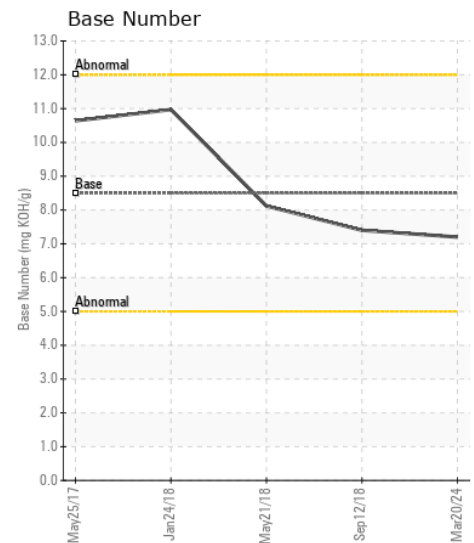
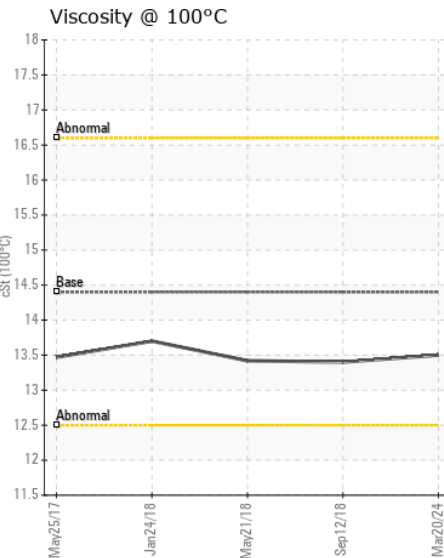
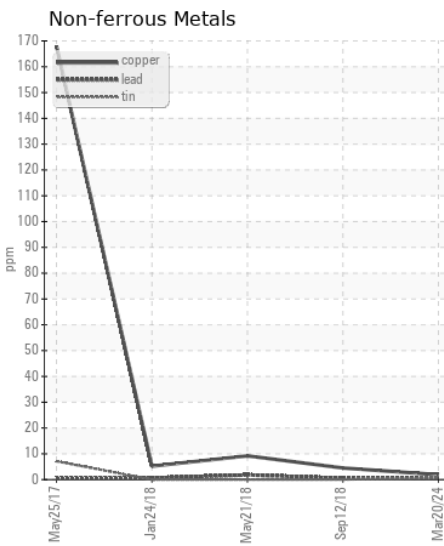
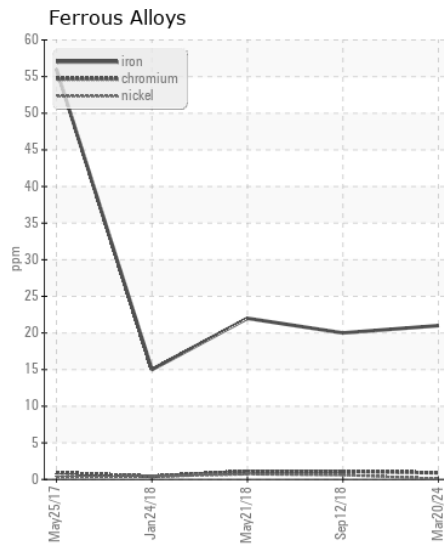
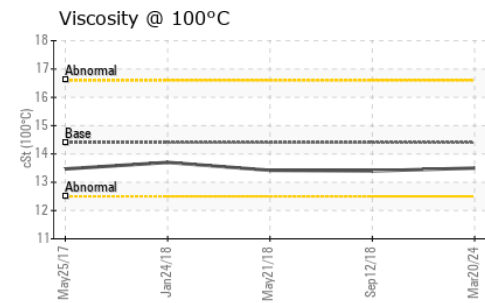
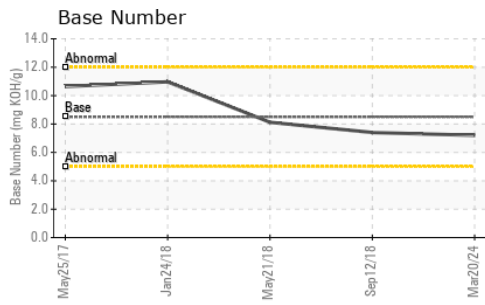
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>8</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	▲ 53	67
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	10.2	9.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	23.6	22.
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	>0.2	<b>NEG</b>	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	<b>5</b>	3	3
Boron	ppm	ASTM D5185m	250	<b>25</b>	19	186
Barium	ppm	ASTM D5185m	10	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>61</b>	67	81
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>681</b>	454	433
Calcium	ppm	ASTM D5185m	3000	<b>1536</b>	1896	1620
Phosphorus	ppm	ASTM D5185m	1150	<b>989</b>	1079	900
Zinc	ppm	ASTM D5185m	1350	<b>1179</b>	1222	1017
Sulfur	ppm	ASTM D5185m	4250	<b>3307</b>	2975	2688
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	21.1	17.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.2</b>	7.4	8.12
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.5</b>	13.4	13.42



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ARI06124507

Lab Number : 06124507

Unique Number : 10938658

Test Package : CONST ( Additional Tests: TBN )

Received : 21 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 21 Mar 2024 - 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)