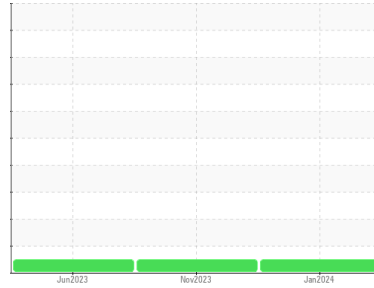


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**CHICAGO 95TH**  
Machine Id  
**TAYLOR TX-360M 436-03 (S/N 36546)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0113123</b>	PCA0113142	PCA0097245
Sample Date	Client Info	<b>16 Jan 2024</b>	18 Nov 2023	09 Jun 2023
Machine Age	hrs	<b>13000</b>	12800	12345
Oil Age	hrs	<b>250</b>	500	1000
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>11</b>	15	20
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	1	3
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>1</b>	2	2
Lead	ppm ASTM D5185m >40	<b>1</b>	1	1
Copper	ppm ASTM D5185m >330	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	<b>&lt;1</b>	4	8
Barium	ppm ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 100	<b>52</b>	49	47
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium	ppm ASTM D5185m 450	<b>912</b>	852	804
Calcium	ppm ASTM D5185m 3000	<b>970</b>	1006	1373
Phosphorus	ppm ASTM D5185m 1150	<b>999</b>	982	1014
Zinc	ppm ASTM D5185m 1350	<b>1193</b>	1161	1293
Sulfur	ppm ASTM D5185m 4250	<b>3061</b>	2804	3912

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>2</b>	3	5
Sodium	ppm ASTM D5185m >158	<b>1</b>	1	3
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	4

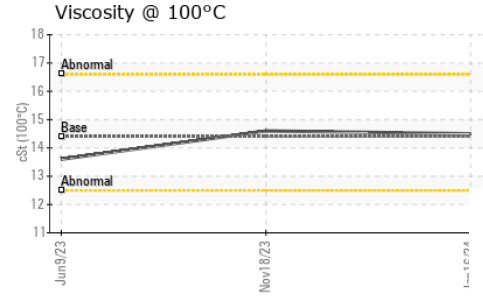
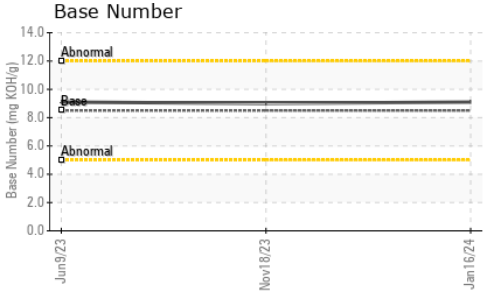
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.6</b>	0.8	0.5
Nitration	Abs/cm *ASTM D7624 >20	<b>5.8</b>	6.4	5.8
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.2</b>	18.8	18.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.4</b>	13.5	12.1
Base Number (BN)	mg KOH/g ASTM D2896 8.5	<b>9.1</b>	9.0	9.1

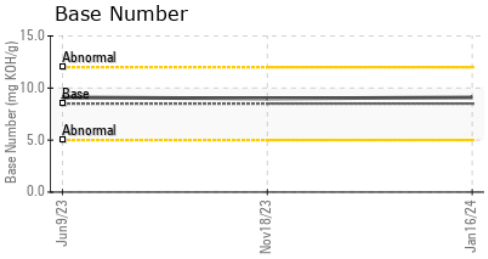
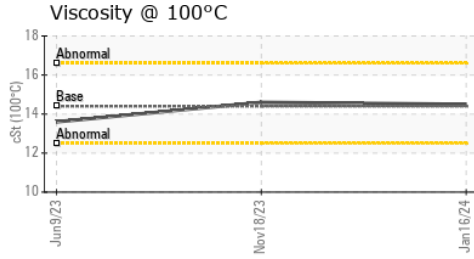
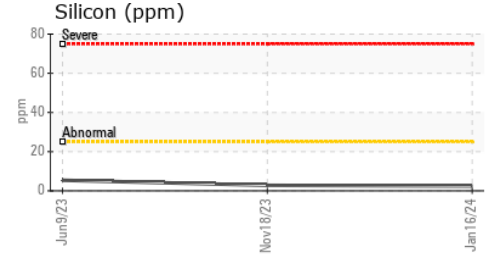
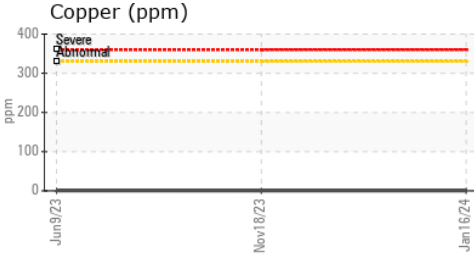
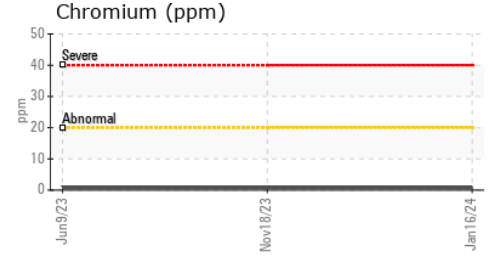
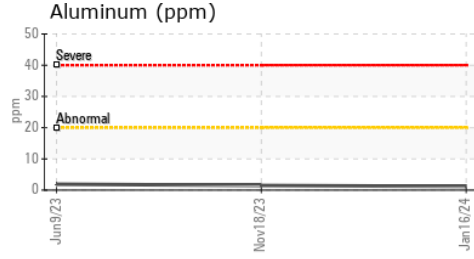
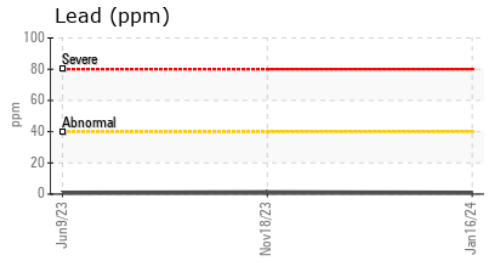
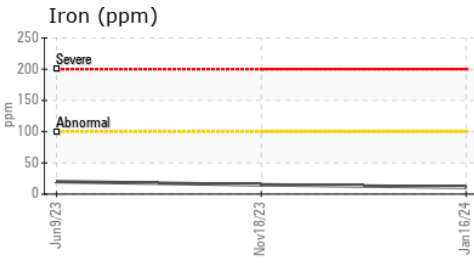
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.5</b>	14.6	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113123      **Received** : 01 Feb 2024  
**Lab Number** : **06076484**      **Tested** : 01 Feb 2024  
**Unique Number** : 10858575      **Diagnosed** : 01 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**NORTH AMERICAN STEVEDORING CO**  
 9301 S KREITER AVE  
 CHICAGO, IL  
 US 60617  
 Contact: PACO MARTINEZ  
 paco.martinez@qsl.com

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)

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F: