



# OIL ANALYSIS REPORT

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

Area  
**SOUTH HOLLAND**  
Machine Id  
**TEREX T340 TC3551 (S/N 13551)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL 10W40 (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0002522</b>	HPL0004499	HPL008281
Sample Date		Client Info		<b>26 Feb 2024</b>	10 Jan 2024	10 Jan 2023
Machine Age	hrs	Client Info		<b>17496</b>	17451	16724
Oil Age	hrs	Client Info		<b>0</b>	0	510
Filter Age	hrs	Client Info		<b>0</b>	0	510
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>5</b>	62	33
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	1	2
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	7	3
Lead	ppm	ASTM D5185m	>40	<b>2</b>	9	4
Copper	ppm	ASTM D5185m	>330	<b>6</b>	83	13
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

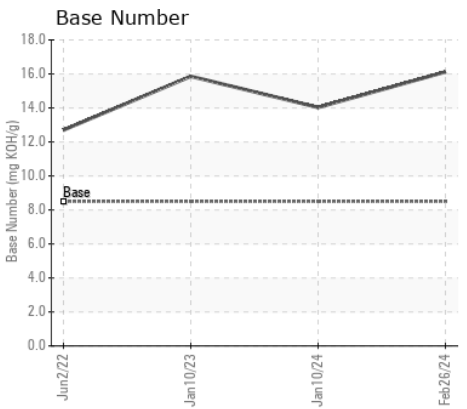
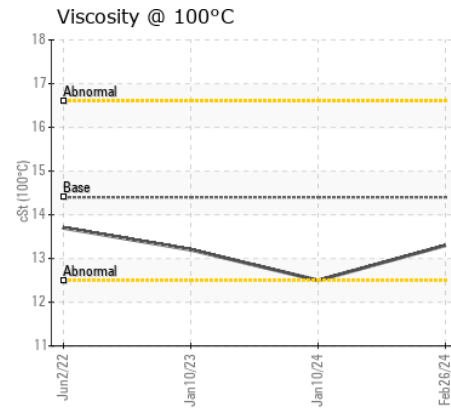
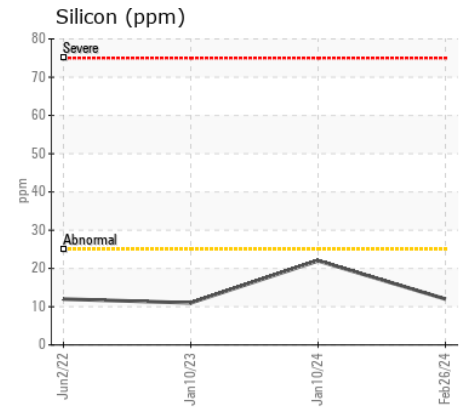
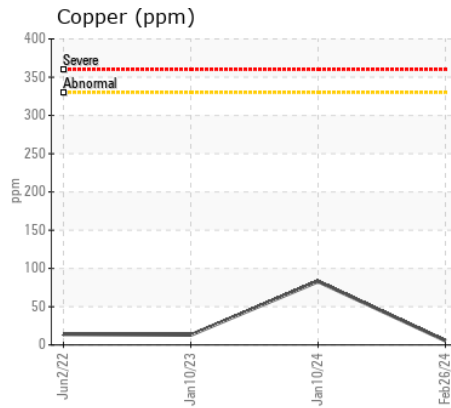
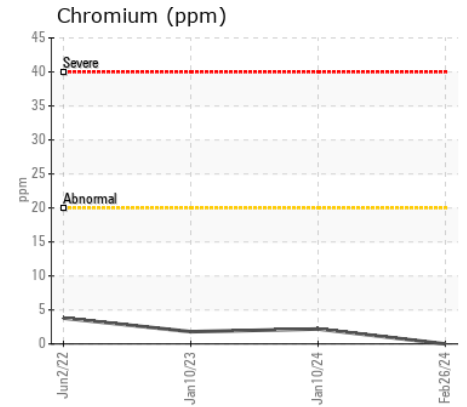
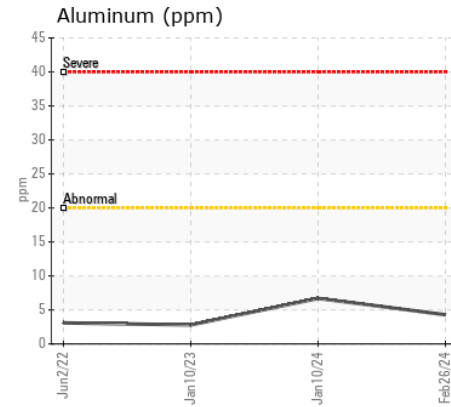
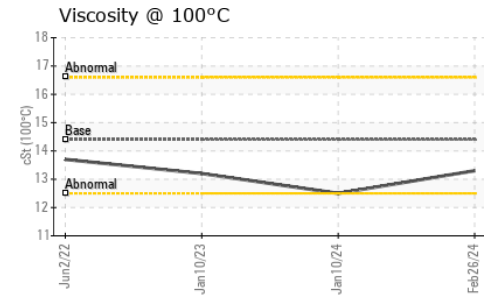
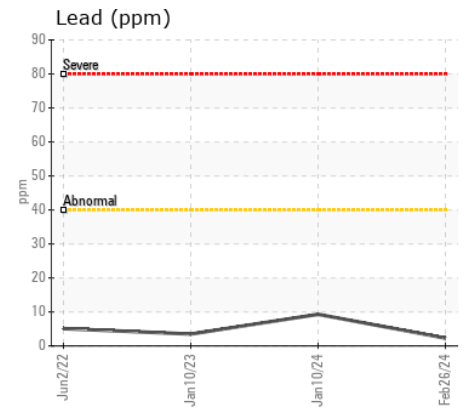
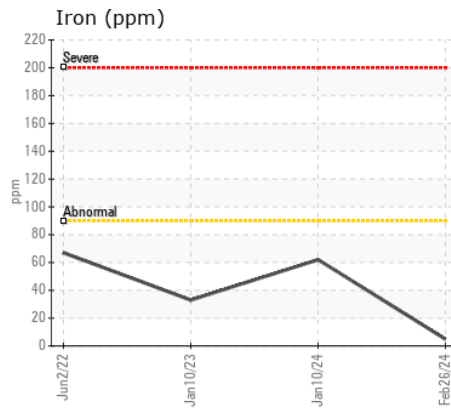
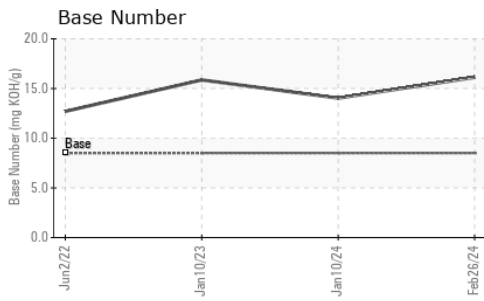
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	22	11
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Fuel		WC Method	>3.0	<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	>6	<b>0.1</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	14.2	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>38.2</b>	40.0	36.6
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		<b>0</b>	0	2
Boron	ppm	ASTM D5185m	250	<b>3</b>	8	13
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	5	0
Molybdenum	ppm	ASTM D5185m	100	<b>528</b>	617	589
Manganese	ppm	ASTM D5185m		<b>3</b>	4	<1
Magnesium	ppm	ASTM D5185m	450	<b>1023</b>	1044	895
Calcium	ppm	ASTM D5185m	3000	<b>2706</b>	2775	2666
Phosphorus	ppm	ASTM D5185m	1150	<b>1090</b>	1119	1020
Zinc	ppm	ASTM D5185m	1350	<b>1335</b>	1355	1217
Sulfur	ppm	ASTM D5185m	4250	<b>8775</b>	9701	7533
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>39.2</b>	42.2	36.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>16.12</b>	14.03	15.86
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.3</b>	12.5	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0002522  
**Lab Number** : 06103183  
**Unique Number** : 10901413  
**Test Package** : MOB 2

**Received** : 28 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 01 Mar 2024 - Sean Felton

**STEVENS ON CRANE**  
 410 STEVENSON DR  
 BOLINGBROOK, IL  
 US 60440

Contact: DAVE KOEHNE  
 davidk@stevensoncrane.com

T: (630)972-9199

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)