



# OIL ANALYSIS REPORT

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

Machine Id  
**TEREX T340 TC0081**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL 10W40 (--- GAL)**

## RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0004149</b>	HPL0003153	HPL0000386
Sample Date		Client Info		<b>09 Jan 2024</b>	11 May 2023	28 Oct 2022
Machine Age	hrs	Client Info		<b>1784</b>	7087	456
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>43</b>	37	35
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	6	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>39</b>	30	33
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	<1
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

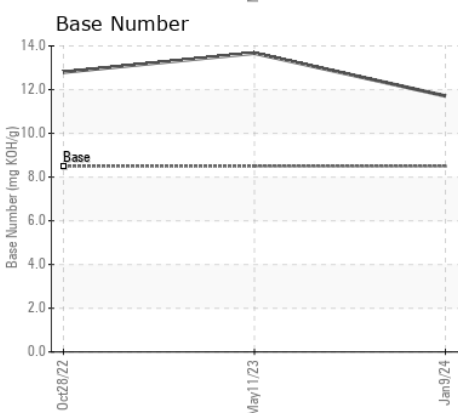
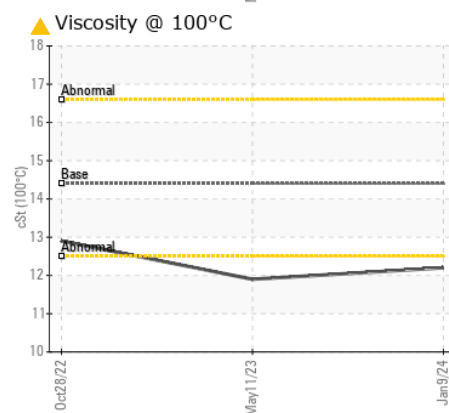
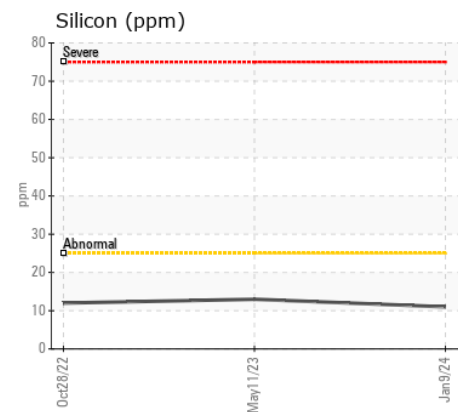
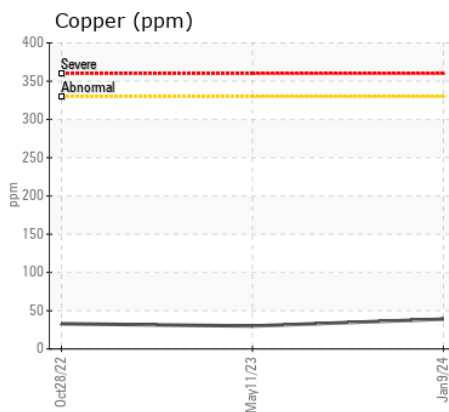
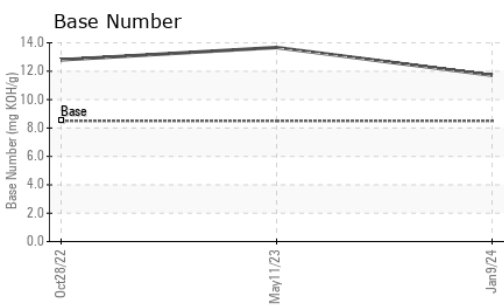
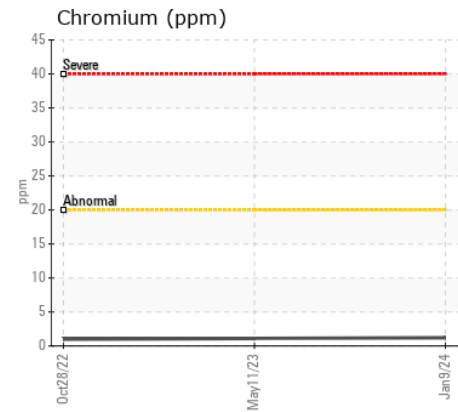
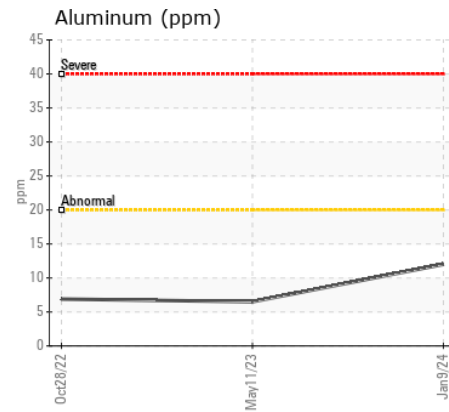
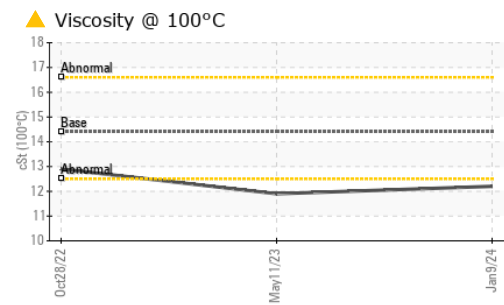
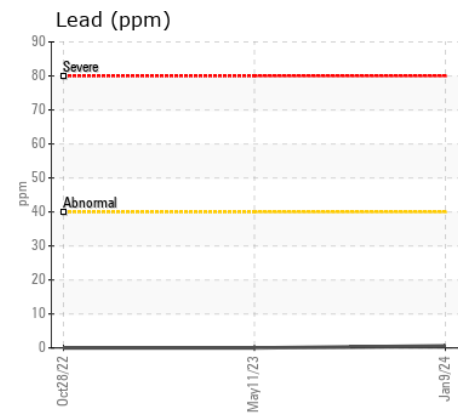
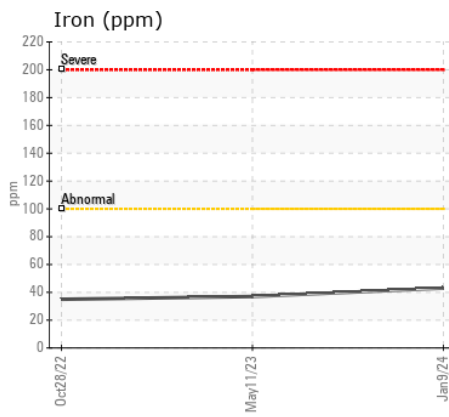
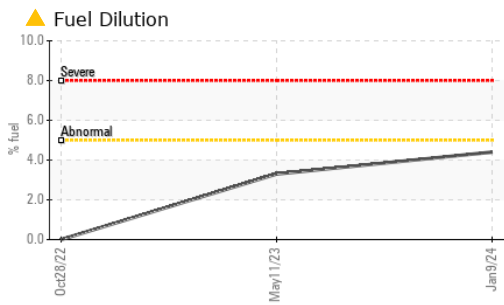
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	13	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	6
Fuel	%	ASTM D3524	>5	<b>▲ 4.4</b>	▲ 3.3	<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>1</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.7</b>	15.3	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>41.0</b>	40.0	41.7
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

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	3	<1
Boron	ppm	ASTM D5185m	250	<b>0</b>	16	2
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m	100	<b>533</b>	541	596
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	450	<b>951</b>	971	963
Calcium	ppm	ASTM D5185m	3000	<b>2384</b>	2555	2692
Phosphorus	ppm	ASTM D5185m	1150	<b>906</b>	992	1060
Zinc	ppm	ASTM D5185m	1350	<b>1274</b>	1251	1280
Sulfur	ppm	ASTM D5185m	4250	<b>7227</b>	9106	9033
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>44.6</b>	43.4	44.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>11.71</b>	13.67	12.8
Visc @ 100°C	cSt	ASTM D445	14.4	<b>▲ 12.2</b>	▲ 11.9	12.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004149 **Received** : 12 Jan 2024  
**Lab Number** : 06059434 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10830816 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**STEVENS ON CRANE**  
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 joe@stevensoncrane.com

Certificate L2367  
 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)