



# OIL ANALYSIS REPORT

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

Area  
**BOLINGBROOK**  
Machine Id  
**TEREX T340 TC4095 (S/N 14095)**  
Component  
**Diesel Engine**  
Fluid  
**HPL 10W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0004953</b>	HPL0004062	HPL0003665
Sample Date		Client Info		<b>09 Jul 2024</b>	26 Sep 2023	15 Aug 2023
Machine Age	hrs	Client Info		<b>5840</b>	5108	18245
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>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>75</b>	19	58
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	2	6
Lead	ppm	ASTM D5185m	>40	<b>3</b>	2	7
Copper	ppm	ASTM D5185m	>330	<b>97</b>	30	105
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

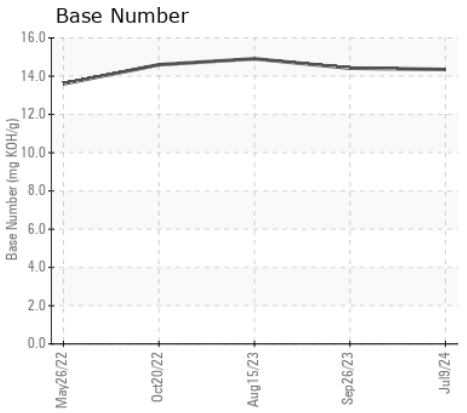
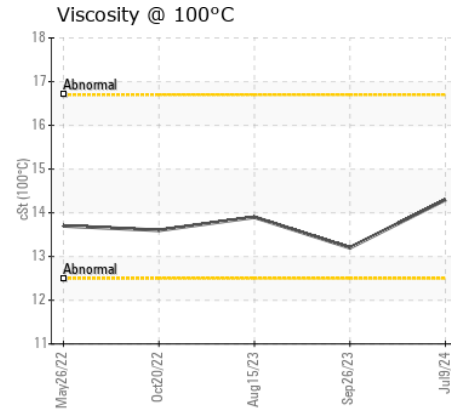
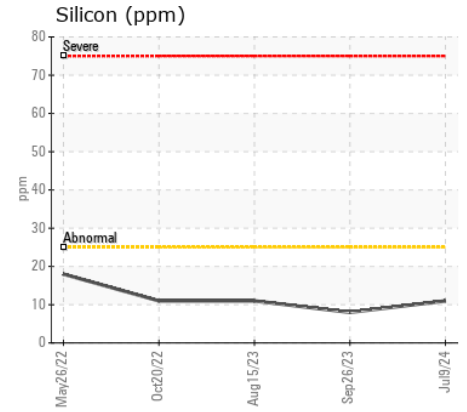
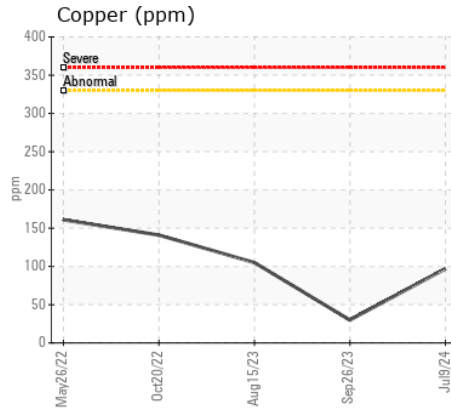
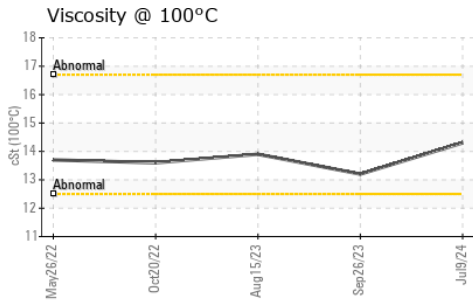
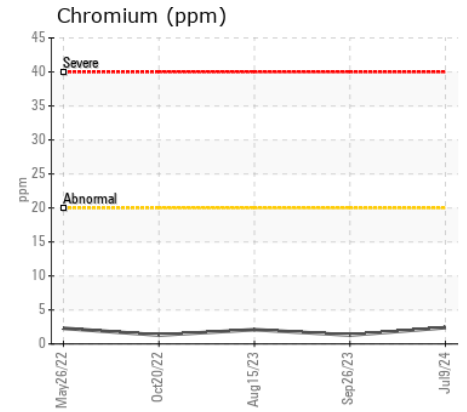
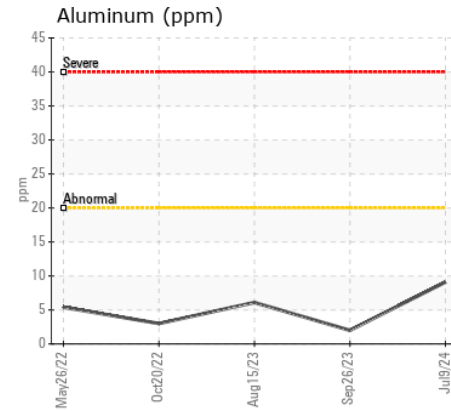
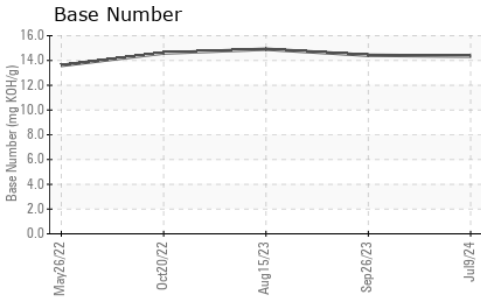
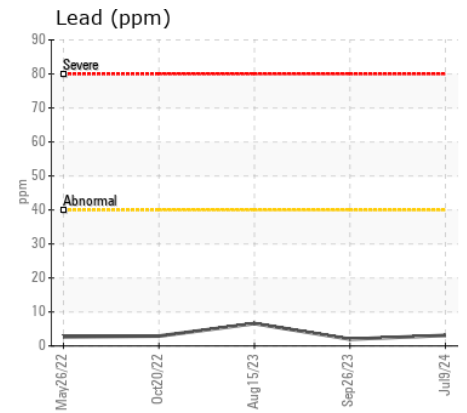
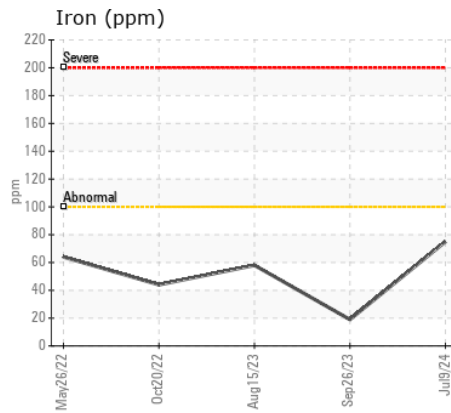
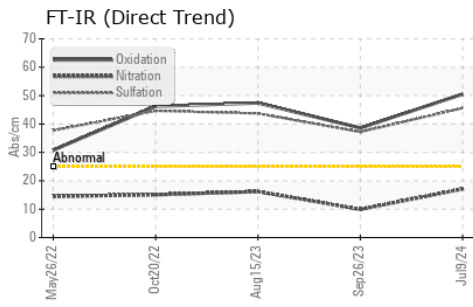
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	8	11
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	3	13
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>0.8</b>	0.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>17.1</b>	9.9	16.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>45.6</b>	37.2	43.7
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

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>14</b>	4	23
Boron	ppm	ASTM D5185m		<b>18</b>	17	16
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>650</b>	585	560
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	3
Magnesium	ppm	ASTM D5185m		<b>1114</b>	1034	1038
Calcium	ppm	ASTM D5185m		<b>2979</b>	2567	2695
Phosphorus	ppm	ASTM D5185m		<b>1178</b>	1080	1037
Zinc	ppm	ASTM D5185m		<b>1495</b>	1336	1416
Sulfur	ppm	ASTM D5185m		<b>8942</b>	7733	8543
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>50.5</b>	38.6	47.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>14.35</b>	14.42	14.91
Visc @ 100°C	cSt	ASTM D445		<b>14.3</b>	13.2	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004953  
**Lab Number** : 06235138  
**Unique Number** : 11123972  
**Test Package** : MOB 2

**Received** : 12 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Sean Felton

**STEVENSON CRANE**  
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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)