



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



Area  
**[W65831]**  
Machine Id  
**TEREX TA300 TTHA1189JK0111047**  
Component  
**Front Left Planetary**  
Fluid  
**GEAR OIL SAE 80W90 (1 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: W65831 )

### WEAR

High concentration of visible metal present. Gear wear is indicated.

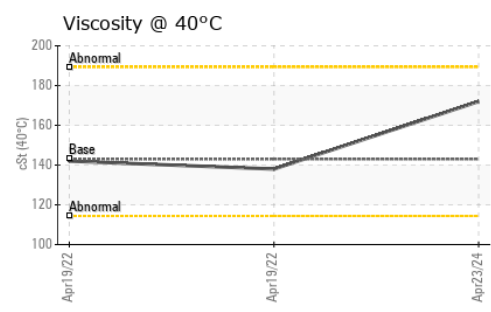
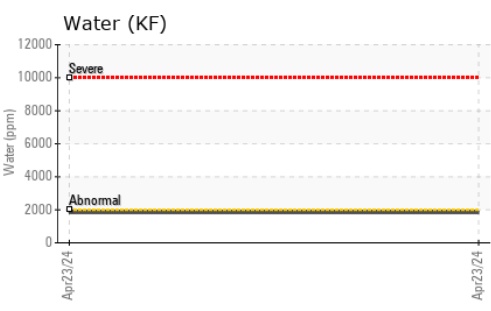
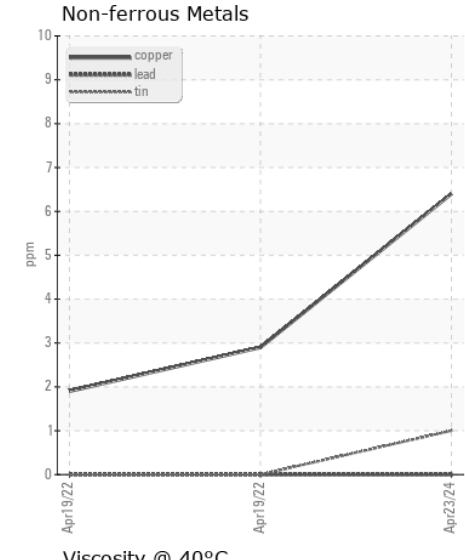
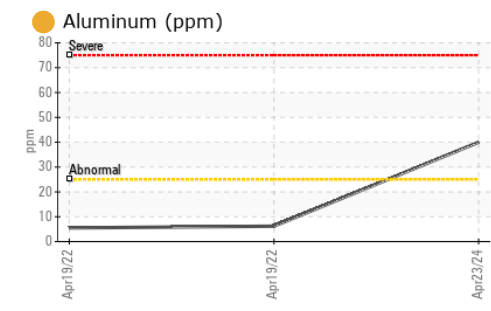
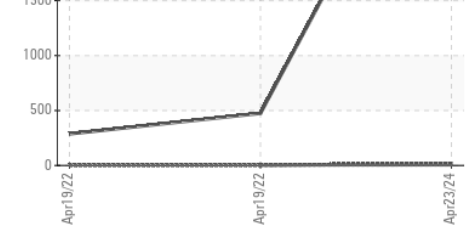
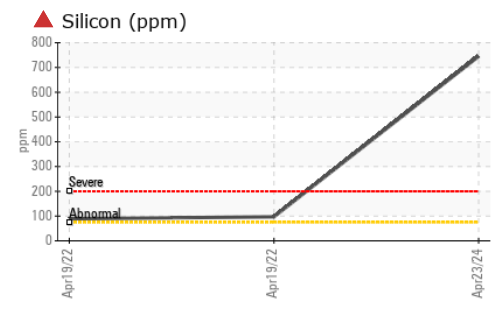
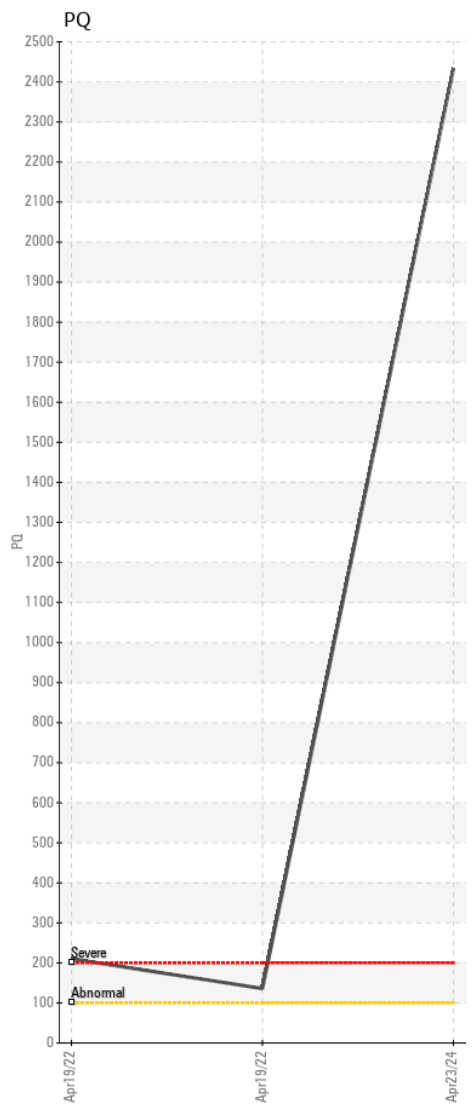
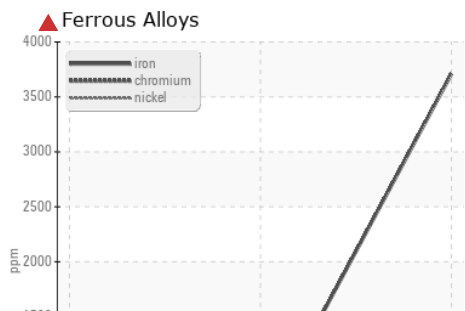
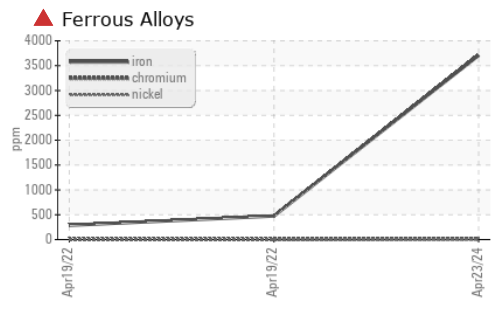
### CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0206807</b>	JR0119802	JR0119756
Sample Date		Client Info		<b>23 Apr 2024</b>	19 Apr 2022	19 Apr 2022
Machine Age	hrs	Client Info		<b>4846</b>	1704	1704
Oil Age	hrs	Client Info		<b>4846</b>	500	500
Filter Age	hrs	Client Info		<b>0</b>	500	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL
PQ		ASTM D8184		<b>2433</b>	136	210
Iron	ppm	ASTM D5185m	>500	<b>▲ 3708</b>	288	475
Chromium	ppm	ASTM D5185m	>10	<b>▲ 16</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 40</b>	6	6
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>6</b>	2	3
Tin	ppm	ASTM D5185m	>10	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>▲ HEAVY</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>▲ 745</b>	<b>▲ 89</b>	<b>▲ 97</b>
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	2	2
Water	%	ASTM D6304	>0.2	<b>0.184</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>1840</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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>0.2%</b>	NEG	NEG
Sodium	ppm	ASTM D5185m	>170	<b>223</b>	26	28
Boron	ppm	ASTM D5185m	400	<b>77</b>	92	89
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>32</b>	3	4
Magnesium	ppm	ASTM D5185m	12	<b>190</b>	145	139
Calcium	ppm	ASTM D5185m	150	<b>80</b>	26	22
Phosphorus	ppm	ASTM D5185m	1650	<b>1809</b>	571	689
Zinc	ppm	ASTM D5185m	125	<b>21</b>	7	8
Sulfur	ppm	ASTM D5185m	22500	<b>27983</b>	15282	17070
Visc @ 40°C	cSt	ASTM D445	143	<b>172</b>	138	142



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0206807 **Received** : 25 Apr 2024  
**Lab Number** : 06160662 **Tested** : 26 Apr 2024  
**Unique Number** : 10996085 **Diagnosed** : 27 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**JRE - CHARLOTTE**  
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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)