



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**TEREX AERIAL DEVICE 219 (S/N 2070734081)**  
 Component  
**Hydraulic System**  
 Fluid  
**CASTROL AERIAL HYD FLUID 22 (30 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ST43781</b>	ST44945	ST39997
Sample Date		Client Info		<b>02 Feb 2024</b>	09 Feb 2023	18 Feb 2021
Machine Age	hrs	Client Info		<b>0</b>	0	0
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	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>1</b>	6	4
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>75	<b>8</b>	9	8
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

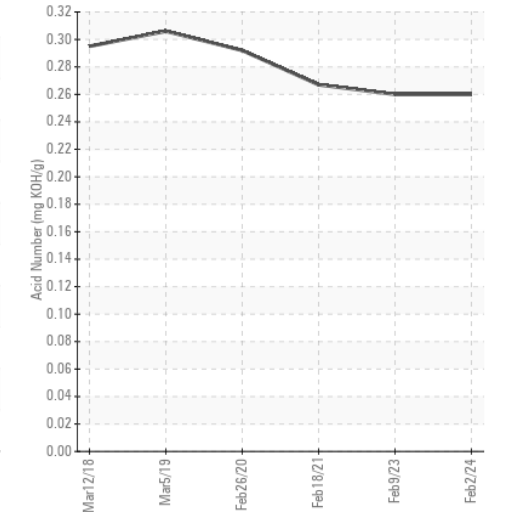
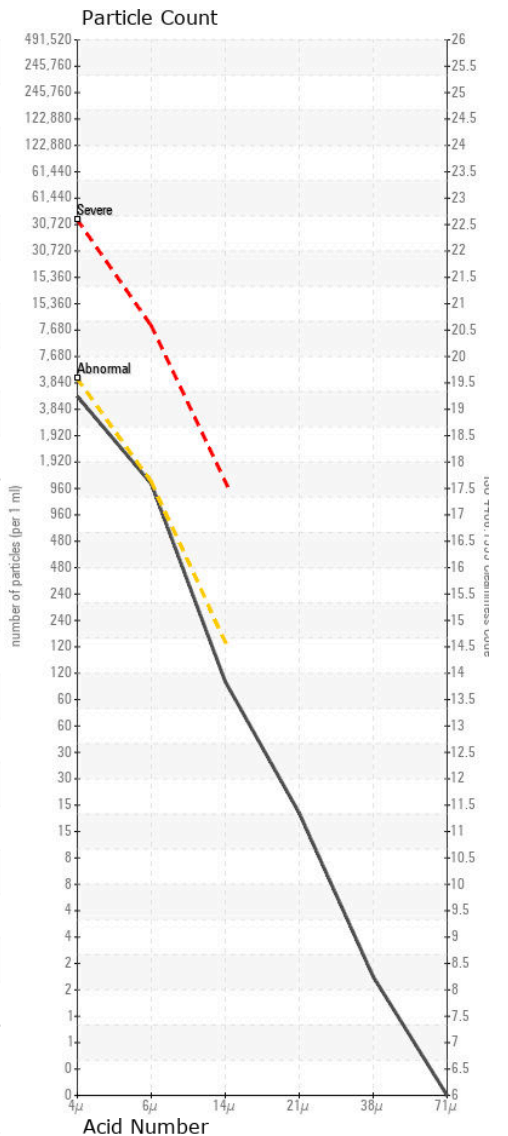
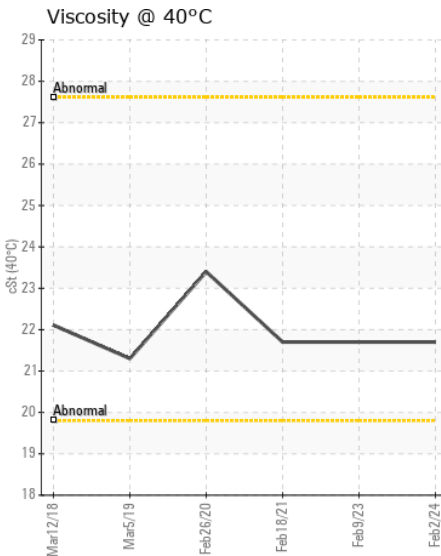
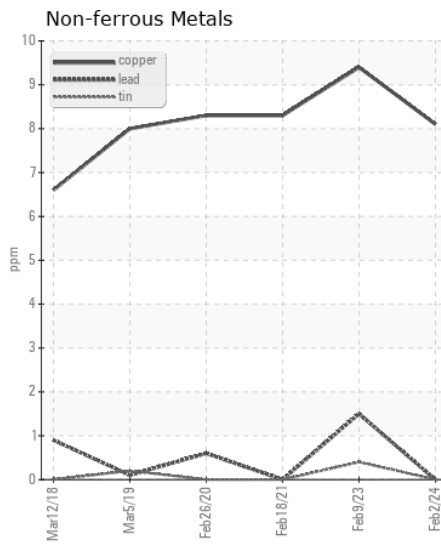
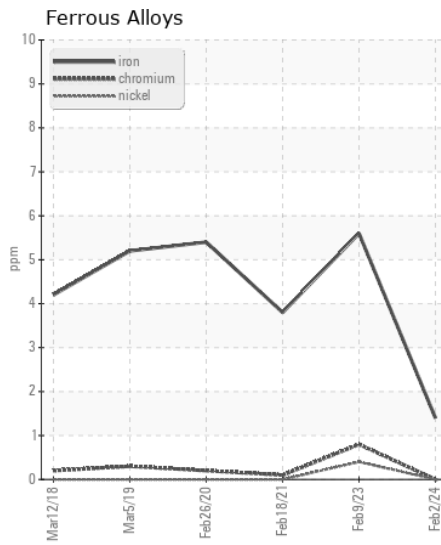
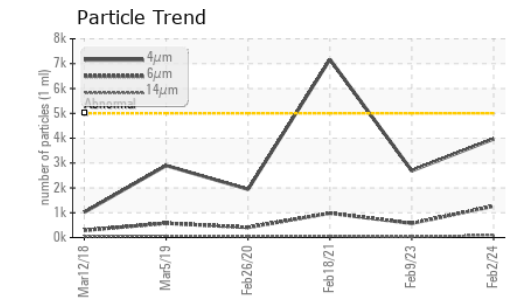
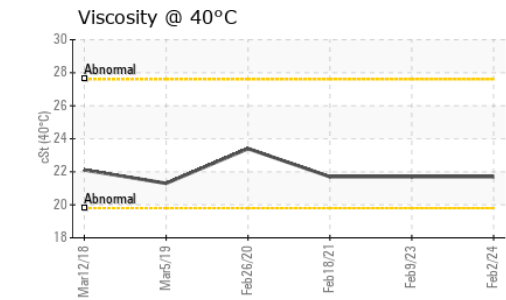
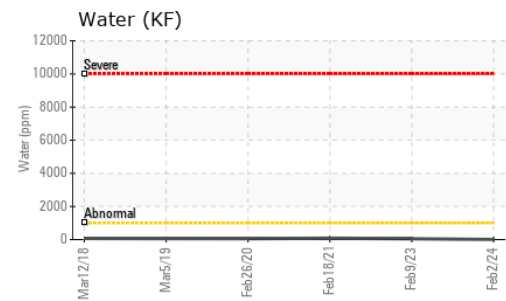
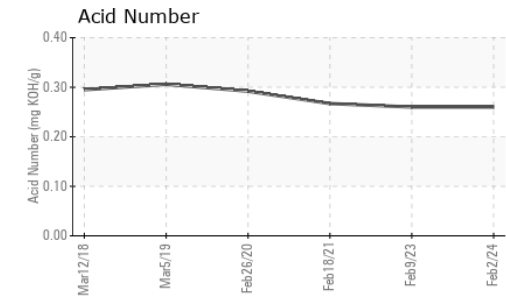
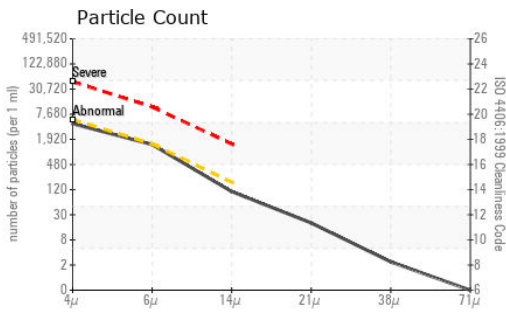
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	2	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	0
Water	%	ASTM D6304	>0.1	<b>0.00</b>	0.005	0.008
ppm Water	ppm	ASTM D6304	>1000	<b>0</b>	51.9	82.5
Particles >4µm		ASTM D7647	>5000	<b>3972</b>	2690	7171
Particles >6µm		ASTM D7647	>1300	<b>1265</b>	569	980
Particles >14µm		ASTM D7647	>160	<b>95</b>	25	62
Particles >21µm		ASTM D7647	>40	<b>17</b>	5	21
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/17/14</b>	19/16/12	20/17/13
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	1	<1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	3	2
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	2
Calcium	ppm	ASTM D5185m		<b>100</b>	113	109
Phosphorus	ppm	ASTM D5185m		<b>444</b>	426	376
Zinc	ppm	ASTM D5185m		<b>248</b>	230	211
Sulfur	ppm	ASTM D5185m		<b>1513</b>	1438	986
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.26</b>	0.26	0.267
Visc @ 40°C	cSt	ASTM D445		<b>21.7</b>	21.7	21.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ST43781

Lab Number : 06221250

Unique Number : 11099447

Test Package : IND 2 ( Additional Tests: KF )

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Wes Davis

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)

COBB EMC

1000 EMC PKWY

MARIETTA, GA

US 30060

Contact: WADE HARRIS

wade.harris@cobbemc.com

T: (678)355-3379

F: