



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[Z20096]

Machine Id

COMBIE CRANE JER267 - SAMPLE 3

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (600 LTR)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06153553	---	---
Sample Date		Client Info		20 Mar 2024	---	---
Machine Age	kms	Client Info		84656	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. The chromium level is abnormal.

Iron	ppm	ASTM D5185m	>20	▲ 86	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 24	---	---
Nickel	ppm	ASTM D5185m	>10	1	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	● 29	---	---
Lead	ppm	ASTM D5185m	>10	2	---	---
Copper	ppm	ASTM D5185m	>75	8	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

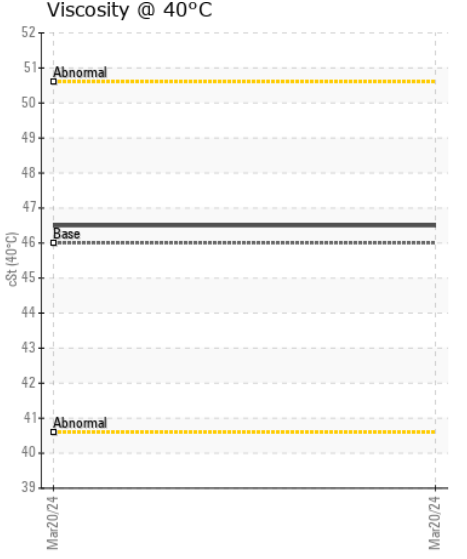
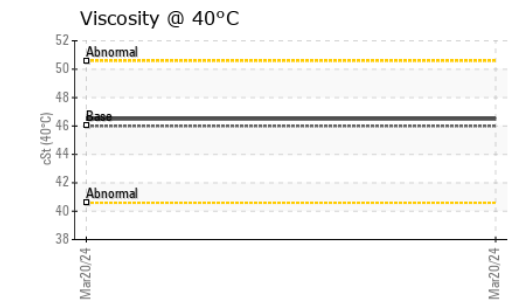
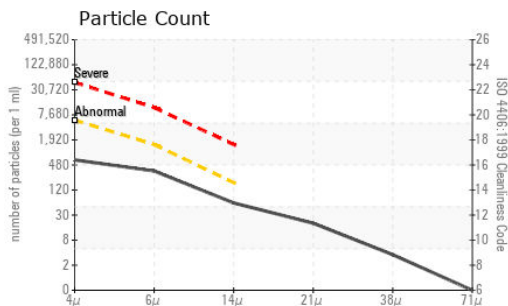
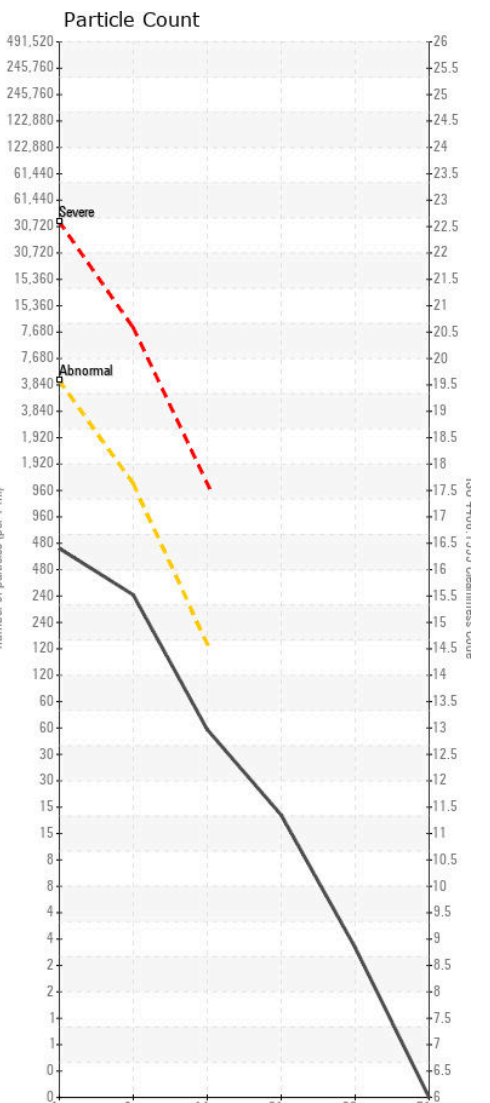
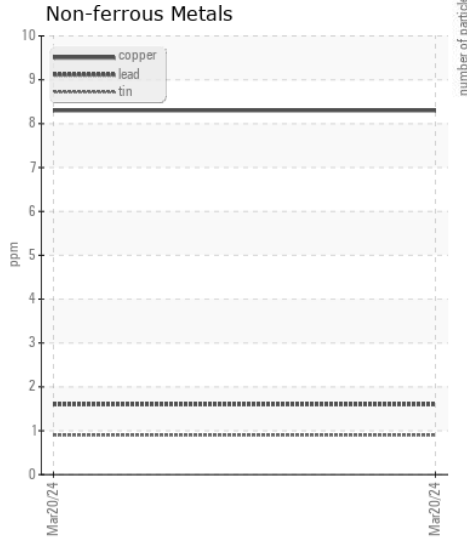
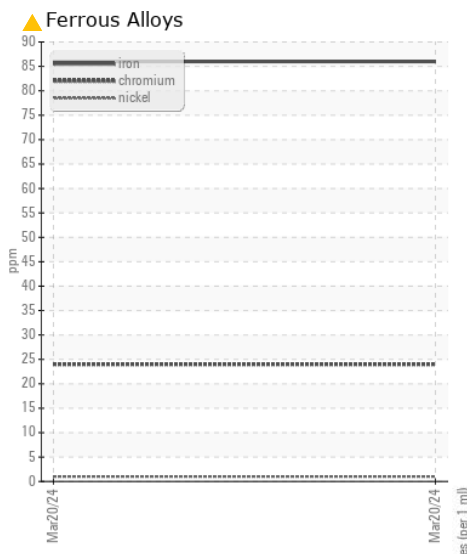
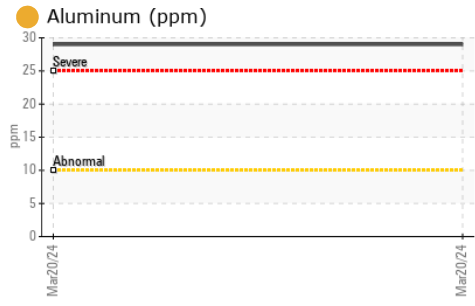
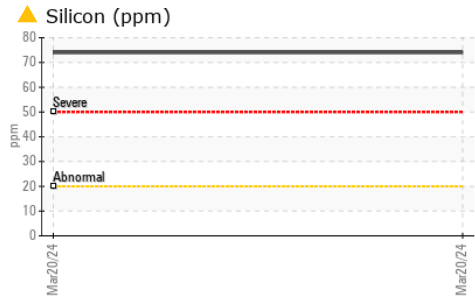
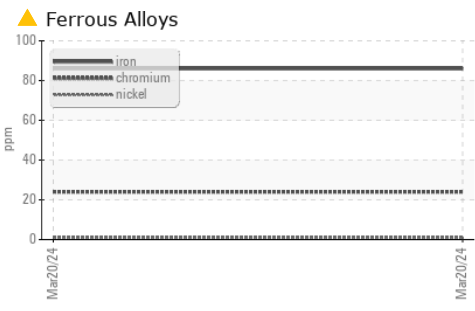
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	▲ 74	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	557	---	---
Particles >6µm		ASTM D7647	>1300	303	---	---
Particles >14µm		ASTM D7647	>160	52	---	---
Particles >21µm		ASTM D7647	>40	17	---	---
Particles >38µm		ASTM D7647	>10	3	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m	5	0	---	---
Barium	ppm	ASTM D5185m	5	2	---	---
Molybdenum	ppm	ASTM D5185m	5	<1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	25	7	---	---
Calcium	ppm	ASTM D5185m	200	174	---	---
Phosphorus	ppm	ASTM D5185m	300	357	---	---
Zinc	ppm	ASTM D5185m	370	409	---	---
Sulfur	ppm	ASTM D5185m	2500	3017	---	---
Visc @ 40°C	cSt	ASTM D445	46	46.5	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06153553 **Received** : 18 Apr 2024
Lab Number : 06153553 **Tested** : 23 Apr 2024
Unique Number : 10983631 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: PRTCOUNT)

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)

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