MOB II

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[Z20097]
Machine Id
COMBIE CRANE JER267 - SAMPLE 1
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.

WEAR

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

CONTAMINATION

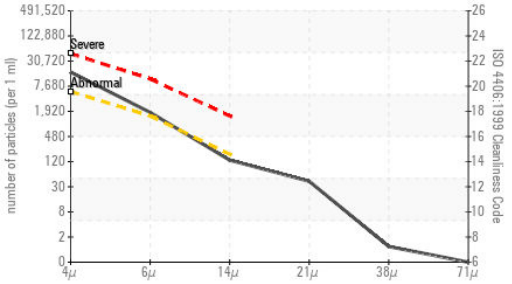
There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

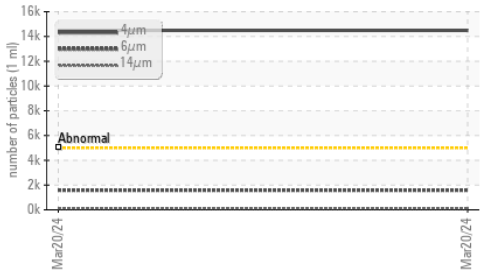
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06153028	---	---
Sample Date		Client Info		20 Mar 2024	---	---
Machine Age	hrs	Client Info		84656	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>20	▲ 59	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 18	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	● 20	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	5	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	▲ 46	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 14492	---	---
Particles >6µm		ASTM D7647	>1300	● 1583	---	---
Particles >14µm		ASTM D7647	>160	115	---	---
Particles >21µm		ASTM D7647	>40	36	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/14	---	---
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	---	---
Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	5	0	---	---
Barium	ppm	ASTM D5185m	5	0	---	---
Molybdenum	ppm	ASTM D5185m	5	0	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m	25	5	---	---
Calcium	ppm	ASTM D5185m	200	90	---	---
Phosphorus	ppm	ASTM D5185m	300	238	---	---
Zinc	ppm	ASTM D5185m	370	253	---	---
Sulfur	ppm	ASTM D5185m	2500	2747	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.19	---	---
Visc @ 40°C	cSt	ASTM D445	46	47.2	---	---

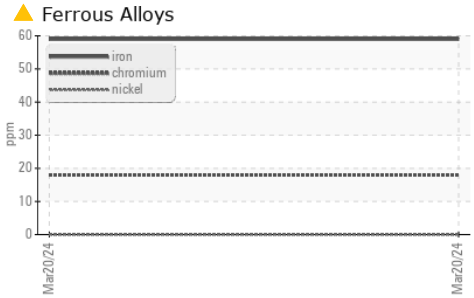
Particle Count



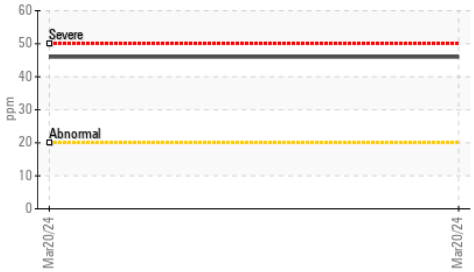
Particle Trend



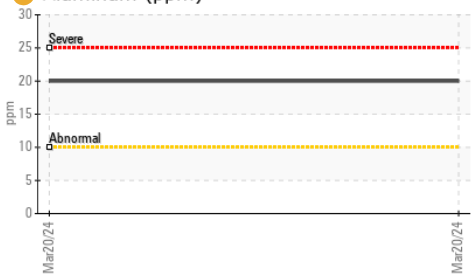
Ferrous Alloys



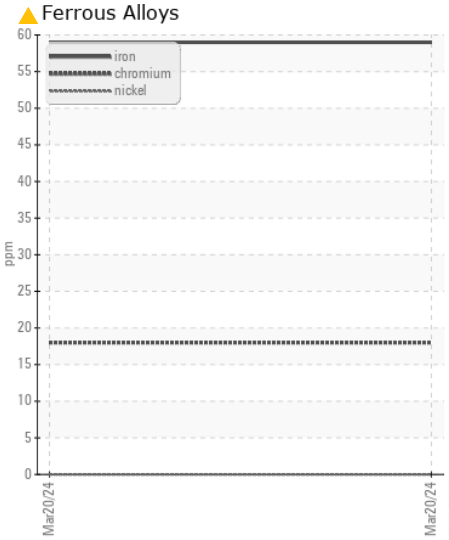
Silicon (ppm)



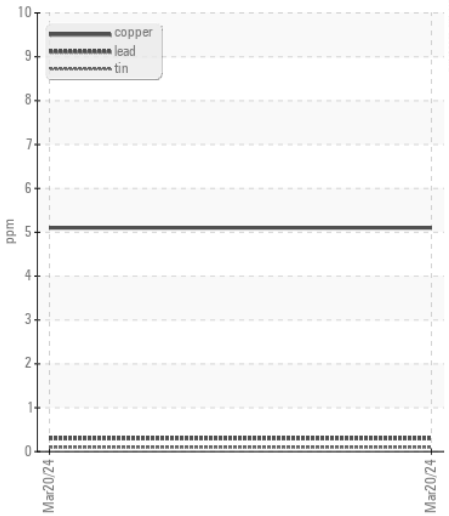
Aluminum (ppm)



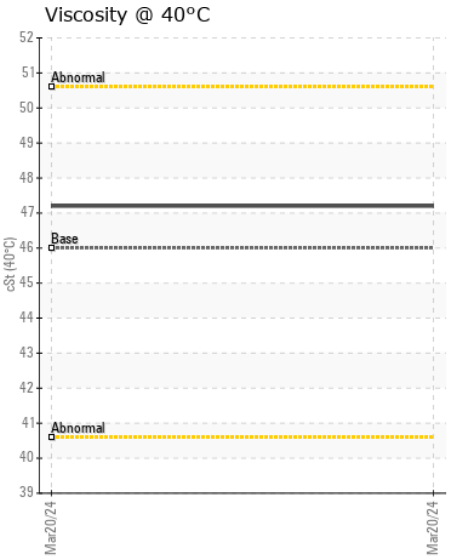
Ferrous Alloys



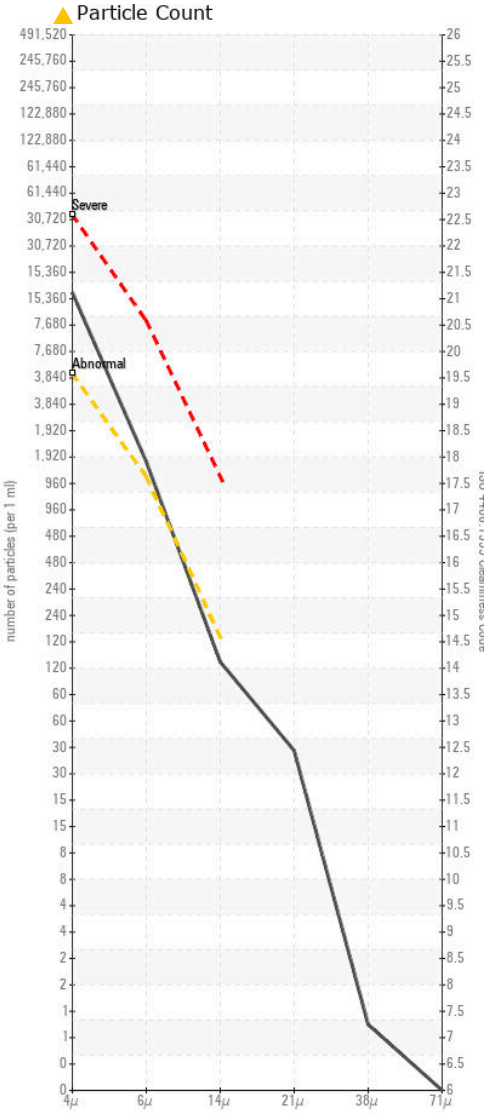
Non-ferrous Metals



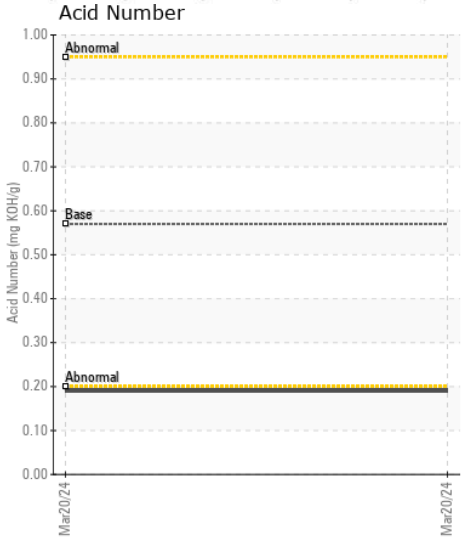
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06153028
Lab Number : 06153028
Unique Number : 10983106
Test Package : MOB 2

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldridge

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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