MOB II

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
CHAD STEELE
Machine Id
17-046S20-3
Component
Hydraulic System
Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

The iron level is abnormal.

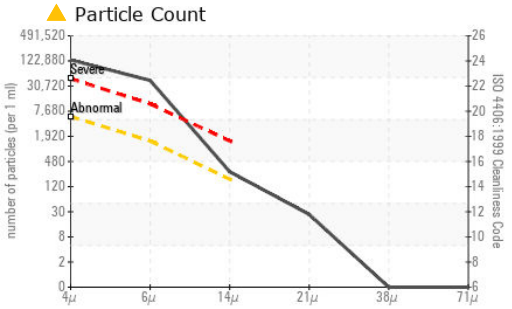
CONTAMINATION

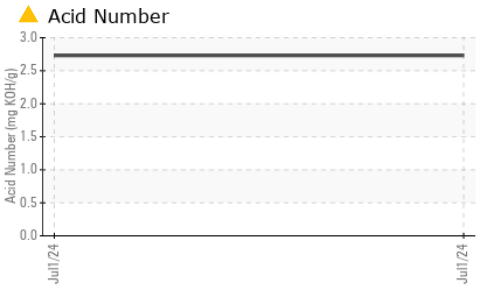
There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

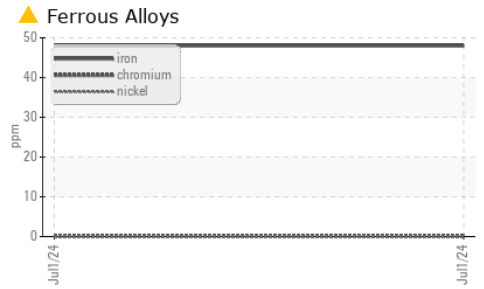
FLUID CONDITION

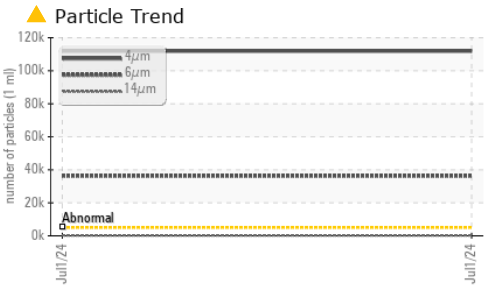
The AN level is above the recommended limit. Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

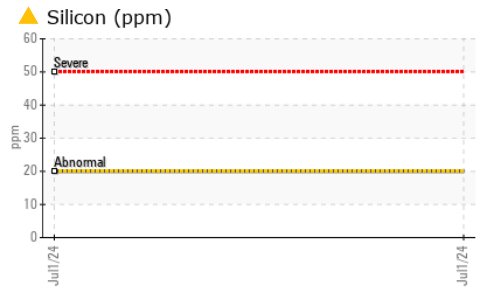
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0881603	---	---
Sample Date		Client Info		01 Jul 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>20	▲ 48	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	● 5	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>75	9	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	▲ 20	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water	%	ASTM D6304	>0.1	0.043	---	---
ppm Water	ppm	ASTM D6304	>1000	435	---	---
Particles >4µm		ASTM D7647	>5000	▲ 111875	---	---
Particles >6µm		ASTM D7647	>1300	▲ 36311	---	---
Particles >14µm		ASTM D7647	>160	● 241	---	---
Particles >21µm		ASTM D7647	>40	23	---	---
Particles >38µm		ASTM D7647	>10	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/15	---	---
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		246	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		8	---	---
Phosphorus	ppm	ASTM D5185m		1372	---	---
Zinc	ppm	ASTM D5185m		3	---	---
Sulfur	ppm	ASTM D5185m		24189	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 2.73	---	---
Visc @ 40°C	cSt	ASTM D445		● 78.5	---	---
Visc @ 100°C	cSt	ASTM D445		13.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270		172	---	---

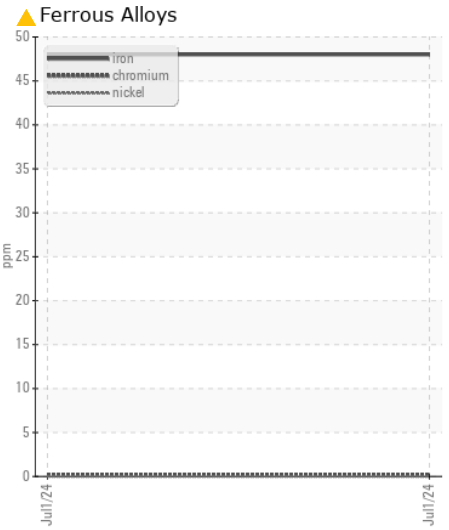


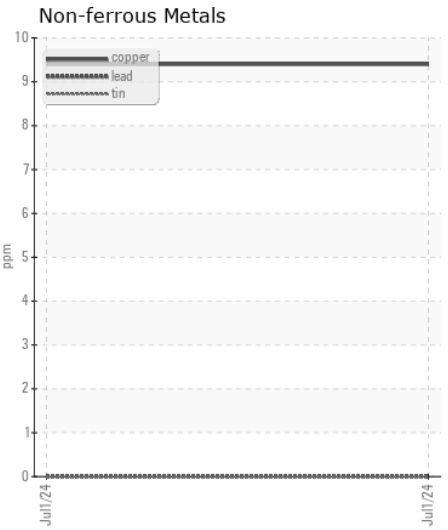


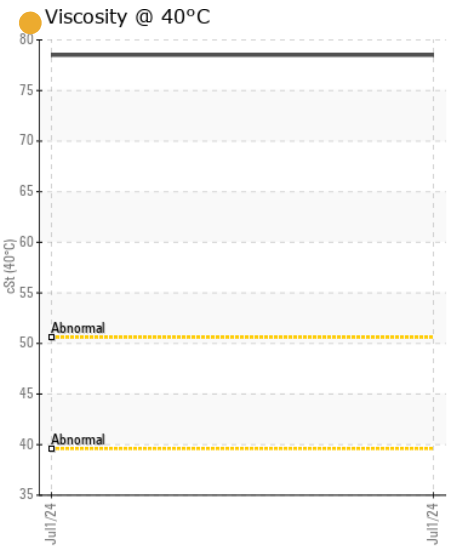


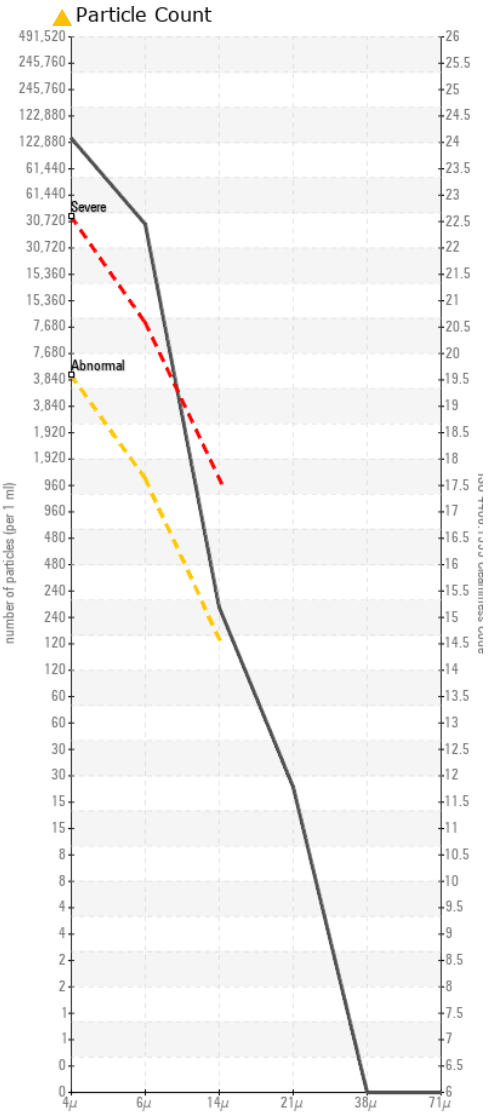


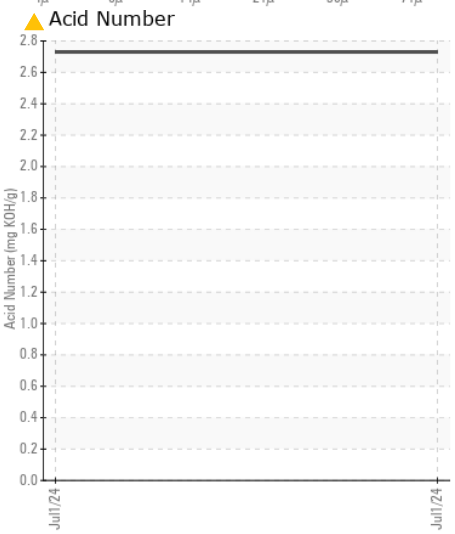












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881603 **Received** : 02 Jul 2024
Lab Number : 06226232 **Tested** : 03 Jul 2024
Unique Number : 11109725 **Diagnosed** : 05 Jul 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: KF, KV100, VI)

Certificate L2367

BASF - TARRYTOWN
500 WHITE PLAINS RD
TARRYTOWN, NY
US 10591
Contact: CHAD STEELE
chad.steele@basf.com
T:
F: (914)785-2166

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)