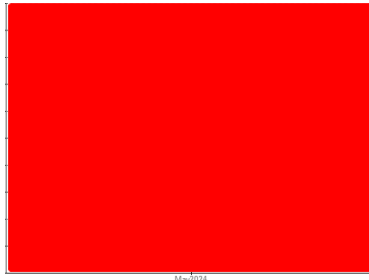


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
MH-78
 Component
Left Swing Drive
 Fluid
AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

▲ Recommendation
 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.

▲ Wear
 Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination
 There is no indication of any contamination in the oil.

● Fluid Condition
 The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0124498	---	---
Sample Date	Client Info		09 May 2024	---	---
Machine Age	hrs	Client Info	15097	---	---
Oil Age	hrs	Client Info	1000	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	▲ 4840	---	---
Chromium	ppm	ASTM D5185m >10	▲ 30	---	---
Nickel	ppm	ASTM D5185m >10	4	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	<1	---	---
Aluminum	ppm	ASTM D5185m >25	6	---	---
Lead	ppm	ASTM D5185m >50	1	---	---
Copper	ppm	ASTM D5185m >200	▲ 1061	---	---
Tin	ppm	ASTM D5185m >10	▲ 100	---	---
Vanadium	ppm	ASTM D5185m	1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	98	---	---
Barium	ppm	ASTM D5185m 5	0	---	---
Molybdenum	ppm	ASTM D5185m 5	2	---	---
Manganese	ppm	ASTM D5185m	34	---	---
Magnesium	ppm	ASTM D5185m 25	1	---	---
Calcium	ppm	ASTM D5185m 200	16	---	---
Phosphorus	ppm	ASTM D5185m 300	448	---	---
Zinc	ppm	ASTM D5185m 370	271	---	---
Sulfur	ppm	ASTM D5185m 2500	4860	---	---

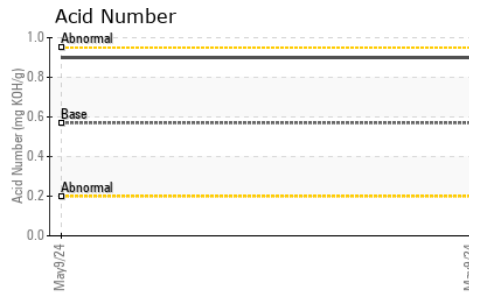
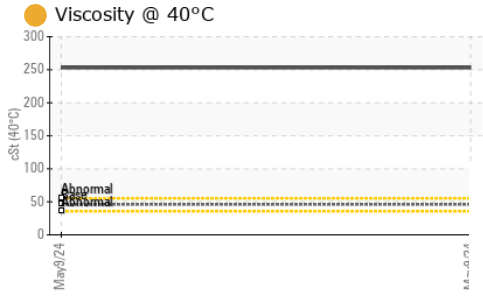
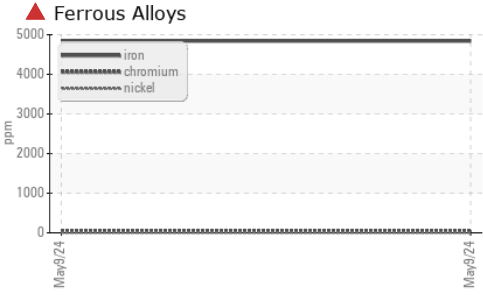
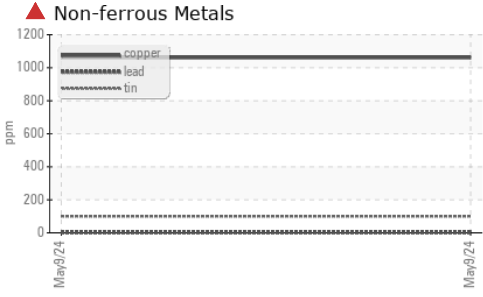
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	21	---	---
Sodium	ppm	ASTM D5185m	7	---	---
Potassium	ppm	ASTM D5185m >20	5	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.90	---	---

OIL ANALYSIS REPORT

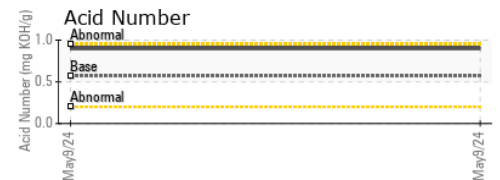
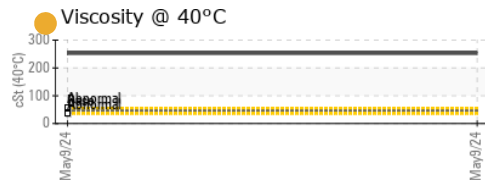
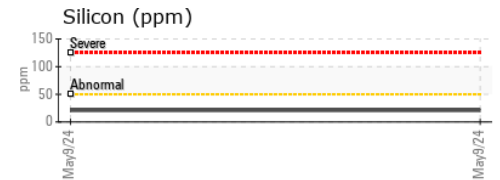
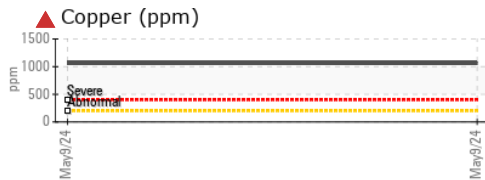
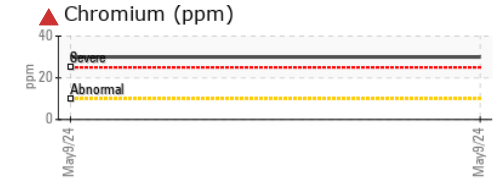
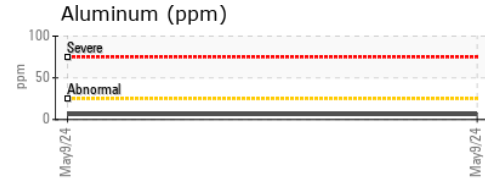
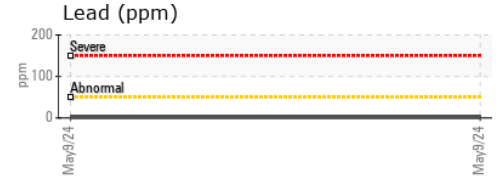
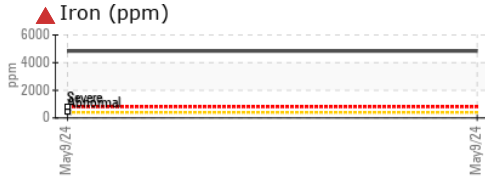


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	● 253	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124498 **Received** : 21 May 2024
Lab Number : 06186353 **Tested** : 22 May 2024
Unique Number : 11043105 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : MOB 2

SCRAP METAL SERVICES (SMS Mill Services LLC)
 250 WEST U.S. HWY 12
 CHESTERTON, IN 46304
 Contact: WALTER MURRAY
 wmurray@scrapmetalservices.com

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)