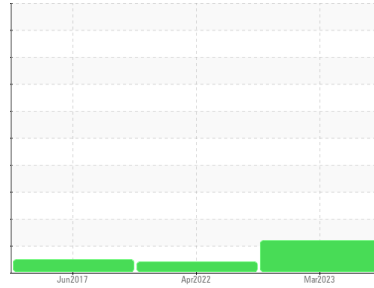




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
CONSTRUCTORS, INC
 Machine Id
111030
 Component
Hydraulic System
 Fluid
MOBIL MOBILFLUID 424 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	SBP0003797	SBP0000668	SBP77262018
Sample Date	Client Info	23 Mar 2023	11 Apr 2022	21 Jun 2017
Machine Age	hrs	3704	3331	1882
Oil Age	hrs	975	602	1882
Oil Changed	Client Info	Changed	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	12	---	---
Iron	ppm ASTM D5185m >20	16	15	31
Chromium	ppm ASTM D5185m >10	<1	<1	0
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m	<1	0	0
Aluminum	ppm ASTM D5185m >10	13	12	17
Lead	ppm ASTM D5185m >10	<1	<1	1
Copper	ppm ASTM D5185m >75	8	9	26
Tin	ppm ASTM D5185m >10	<1	<1	1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	77	64	12
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	2	2	4
Manganese	ppm ASTM D5185m	<1	<1	0
Magnesium	ppm ASTM D5185m	33	29	18
Calcium	ppm ASTM D5185m	2466	2263	560
Phosphorus	ppm ASTM D5185m	959	953	928
Zinc	ppm ASTM D5185m	1153	1018	1124
Sulfur	ppm ASTM D5185m	4782	3640	---

CONTAMINANTS

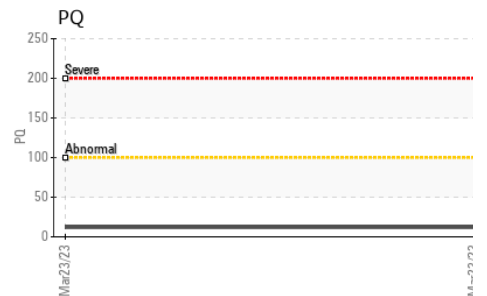
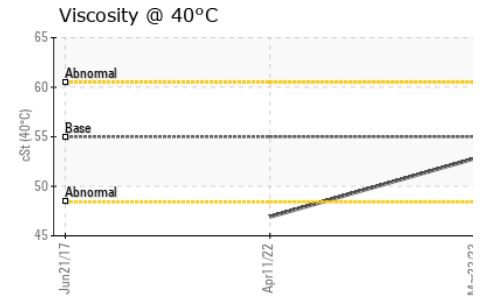
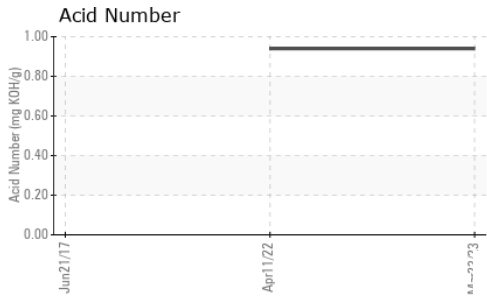
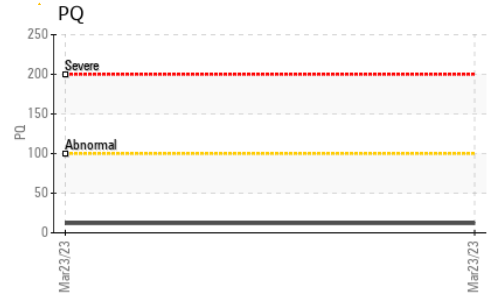
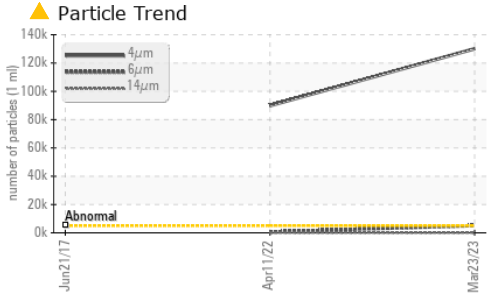
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	17	19	15
Sodium	ppm ASTM D5185m	8	7	5
Potassium	ppm ASTM D5185m >20	1	<1	4
Chlorine	ppm ASTM D5185m	---	---	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 130097	▲ 89832	---
Particles >6µm	ASTM D7647 >1300	▲ 5111	578	---
Particles >14µm	ASTM D7647 >160	29	40	---
Particles >21µm	ASTM D7647 >40	7	9	---
Particles >38µm	ASTM D7647 >10	1	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 24/20/12	▲ 24/16/12	---



OIL ANALYSIS REPORT

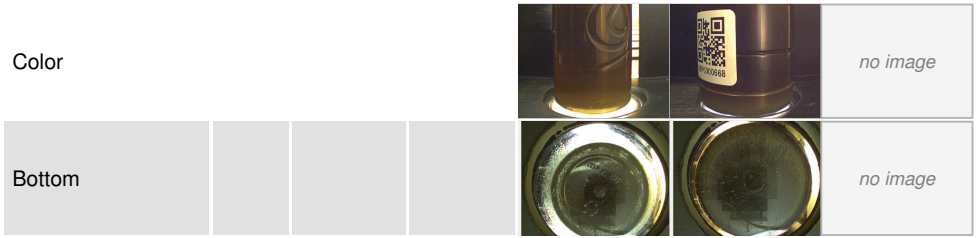


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.94	0.94	---

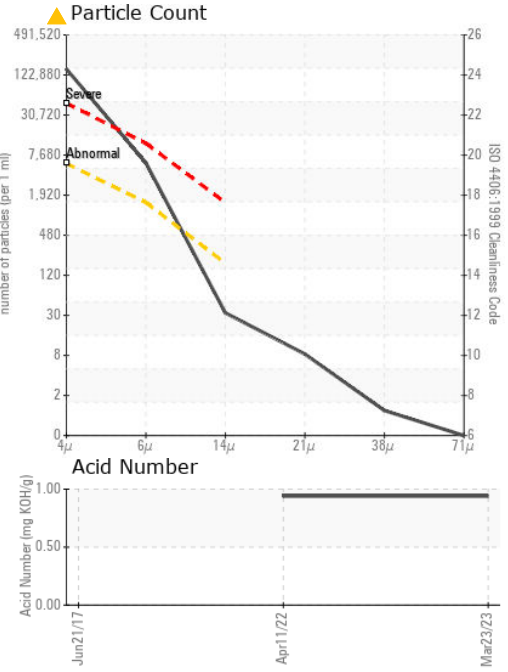
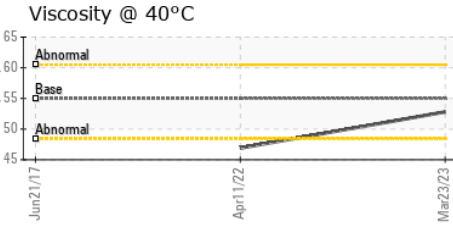
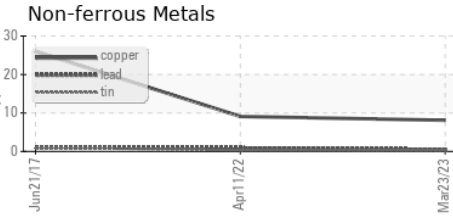
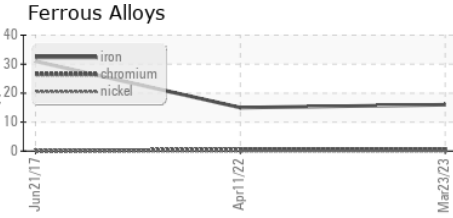
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	52.8	46.9	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0003797 **Received** : 27 Mar 2023
Lab Number : **05803262** **Tested** : 29 Mar 2023
Unique Number : 10400791 **Diagnosed** : 29 Mar 2023 - Doug Bogart
Test Package : FLEET (Additional Tests: PQ, 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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