



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
71
Component
Hydraulic System
Fluid
{not provided} (20 GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001398	TR0001473	TR0001245
Sample Date		Client Info		08 Apr 2024	20 Mar 2024	14 Nov 2023
Machine Age	hrs	Client Info		19636	19103	13718
Oil Age	hrs	Client Info		19636	19103	13718
Filter Age	hrs	Client Info		533	19103	13718
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

The copper level is severe.

Iron	ppm	ASTM D5185m	>20	22	20	17
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	3	3
Lead	ppm	ASTM D5185m	>10	2	<1	5
Copper	ppm	ASTM D5185m	>75	▲ 514	▲ 452	▲ 392
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

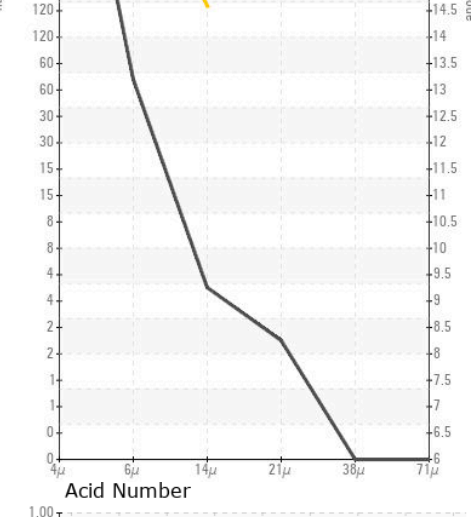
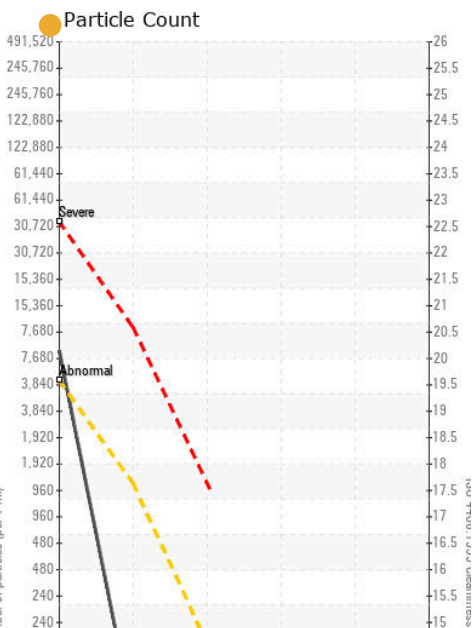
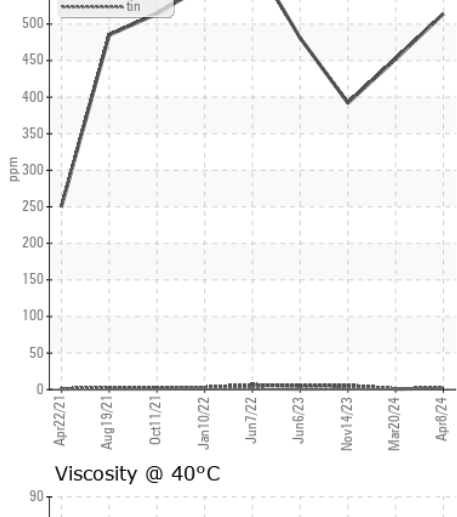
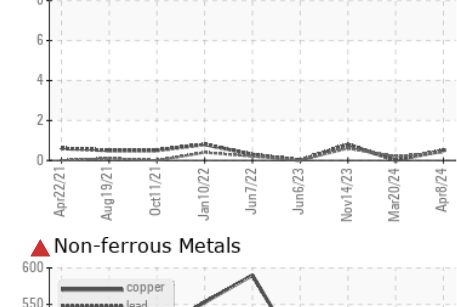
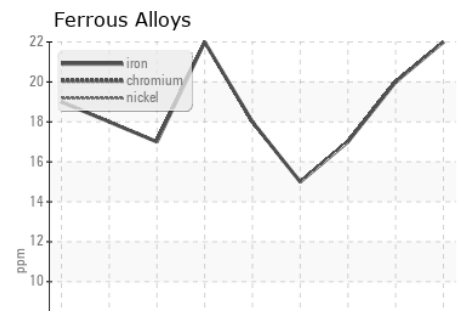
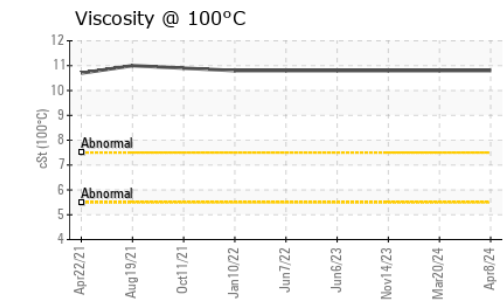
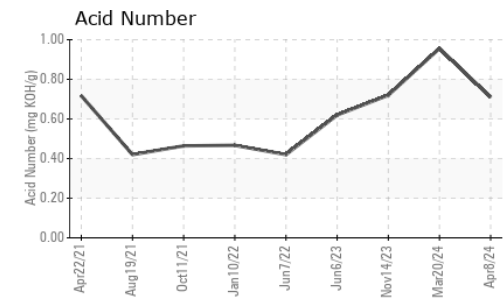
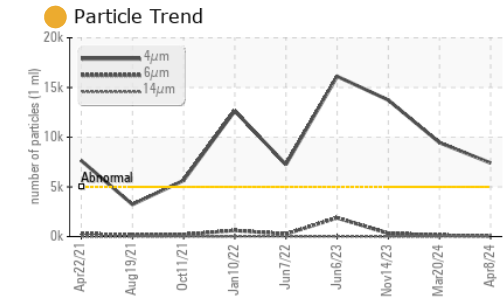
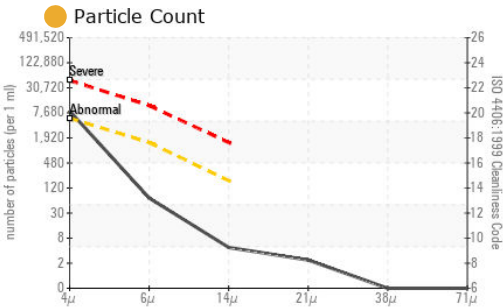
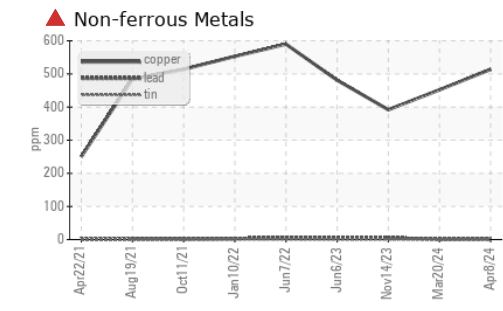
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	12	11	10
Potassium	ppm	ASTM D5185m	>20	3	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● 7405	● 9451	▲ 13735
Particles >6µm		ASTM D7647	>1300	61	131	332
Particles >14µm		ASTM D7647	>160	4	3	7
Particles >21µm		ASTM D7647	>40	2	1	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/13/9	● 20/14/9	▲ 21/16/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		8	10	8
Boron	ppm	ASTM D5185m		5	5	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	3	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	24	0
Calcium	ppm	ASTM D5185m		2518	2225	2102
Phosphorus	ppm	ASTM D5185m		923	831	777
Zinc	ppm	ASTM D5185m		1083	973	951
Sulfur	ppm	ASTM D5185m		3901	3765	2889
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.956	0.72
Visc @ 40°C	cSt	ASTM D445		86.8	86.3	87.2
Visc @ 100°C	cSt	ASTM D445		10.8	10.8	10.8
Viscosity Index (VI)	Scale	ASTM D2270		109	109	108



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001398
Lab Number : 06148055
Unique Number : 10978133
Test Package : MOB 2 (Additional Tests: KV100, VI)
Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 16 Apr 2024 - Don Baldrige

S S CONCRETE MATERIALS LLC
 P.O. BOX 23283
 BULLHEAD CITY, AZ
 US 86439
 Contact: SERVICE MANAGER
 snsmaterials1@gmail.com
 T:
 F: (928)754-1991

To discuss this sample report, contact Customer Service at 1-800-827-0711.
 * - 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)