IND II

FLUID CONTROL SERVICES

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
SM312/003 - UNBIND RACK (S/N 0238-31110-00020-04801)
Component
Hydraulic System
Fluid
MOBIL HYDRAULIC OIL AW 68 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal.

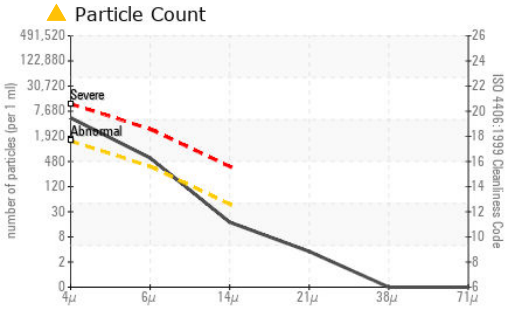
CONTAMINATION

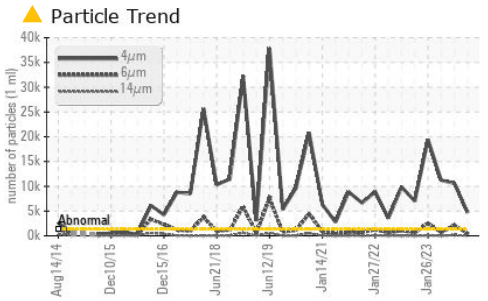
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

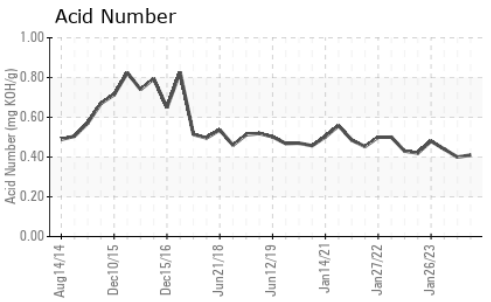
FLUID CONDITION

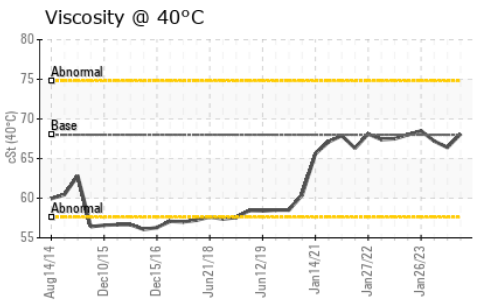
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

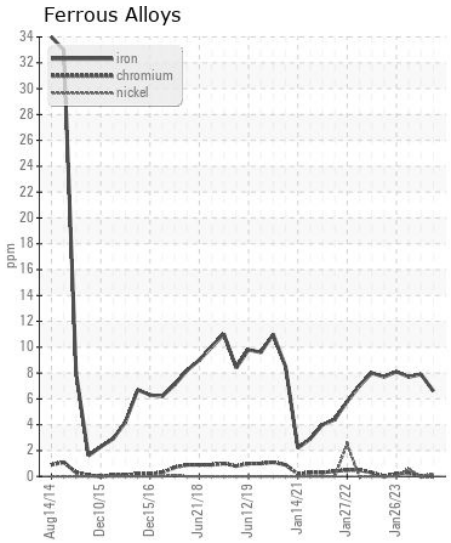
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		FC006222	FC0000563	FC0000468
Sample Date		Client Info		17 May 2024	15 Aug 2023	03 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>20	7	8	8
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	6	7	5
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	3	3	3
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>1300	▲ 4654	▲ 10600	▲ 11222
Particles >6µm		ASTM D7647	>320	● 512	▲ 2100	▲ 676
Particles >14µm		ASTM D7647	>40	15	▲ 150	12
Particles >21µm		ASTM D7647	>10	3	▲ 34	2
Particles >38µm		ASTM D7647	>3	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/12	▲ 19/16/11	▲ 21/18/14	▲ 21/17/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.05	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	5
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	3	7
Calcium	ppm	ASTM D5185m		47	56	61
Phosphorus	ppm	ASTM D5185m		309	331	349
Zinc	ppm	ASTM D5185m		346	374	399
Sulfur	ppm	ASTM D5185m		2929	3077	3463
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.40	0.44
Visc @ 40°C	cSt	ASTM D445	68	68.1	66.4	67.2

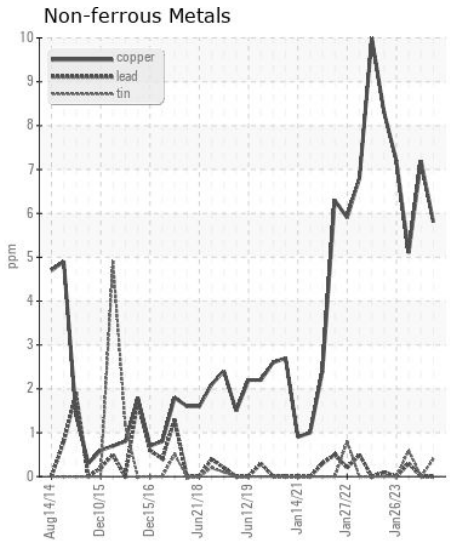


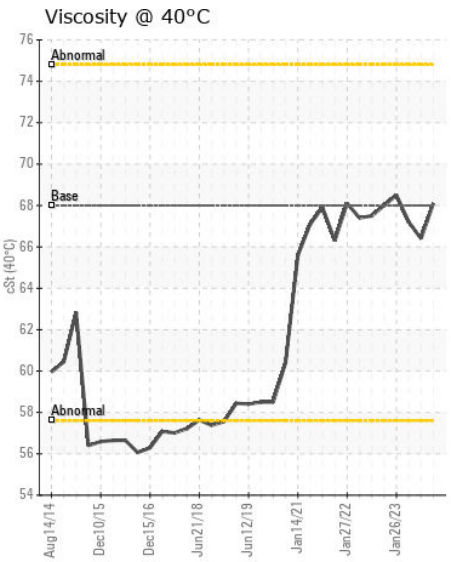


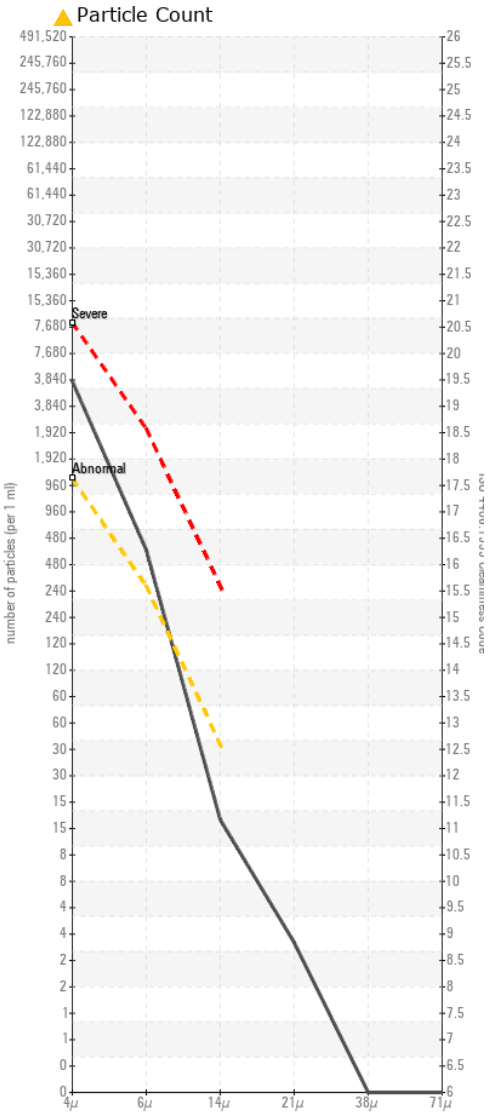


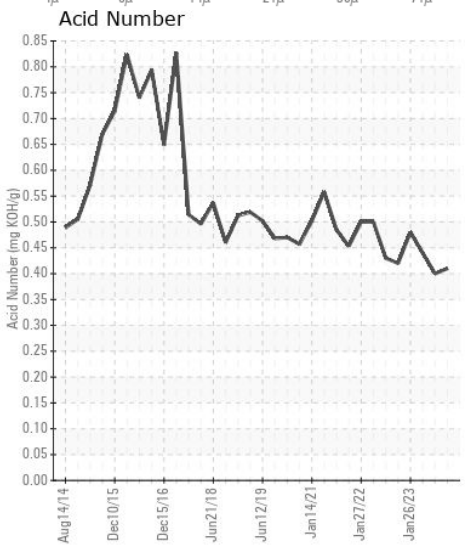












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : FC006222
Lab Number : 06187624
Unique Number : 11044376
Test Package : IND 2

Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Wes Davis

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)

FLUID CONTROL SERVICES, INC.
1155 ALLGOOD ROAD, SUITE 15
MARIETTA, GA
US 30062
Contact: Duane Smith
dsmith.fcs@sealsaver.com
T: (770)509-5833
F: (770)509-5832