CONST

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
AMR-Sedalia
Machine Id
233141 LIEBHERR LH50M 1203-75764
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (169 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

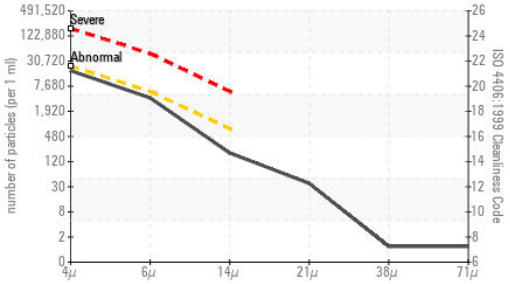
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

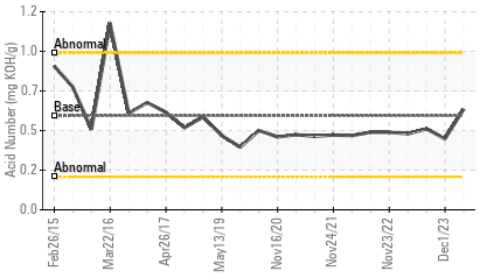
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0019071	DJJ0018639	DJJ0018419
Sample Date		Client Info		09 Apr 2024	01 Dec 2023	31 Jul 2023
Machine Age	hrs	Client Info		14835	14337	13834
Oil Age	hrs	Client Info		1500	0	500
Filter Age	hrs	Client Info		500	0	500
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>60	3	6	4
Chromium	ppm	ASTM D5185m	>40	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	<1	0
Lead	ppm	ASTM D5185m	>5	0	0	<1
Copper	ppm	ASTM D5185m	>15	2	3	3
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	15692	17690	9847
Particles >6µm		ASTM D7647	>5000	3509	4070	2089
Particles >14µm		ASTM D7647	>640	170	195	84
Particles >21µm		ASTM D7647	>160	32	24	12
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/15	21/19/15	20/18/14
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	0
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	1	<1	<1
Calcium	ppm	ASTM D5185m	200	292	59	78
Phosphorus	ppm	ASTM D5185m	300	359	325	334
Zinc	ppm	ASTM D5185m	370	392	421	448
Sulfur	ppm	ASTM D5185m	2500	1529	880	973
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.61	0.43	0.49
Visc @ 40°C	cSt	ASTM D445	46	45.5	45.4	49.8

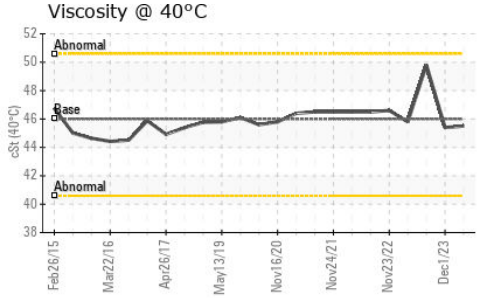
Particle Count



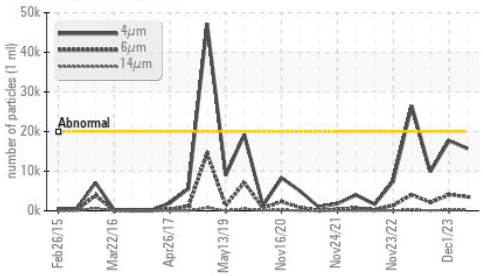
Acid Number



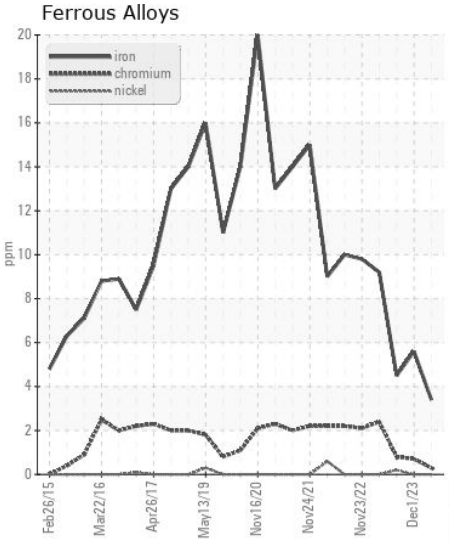
Viscosity @ 40°C



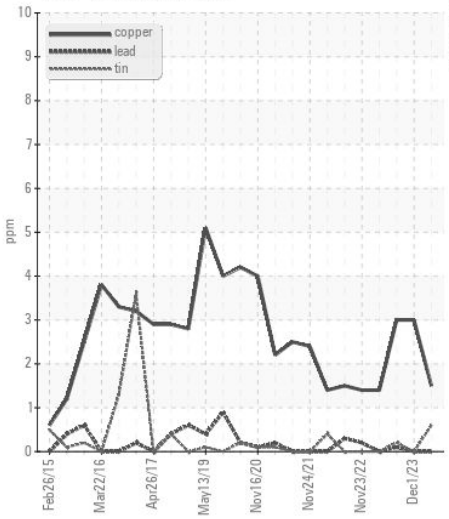
Particle Trend



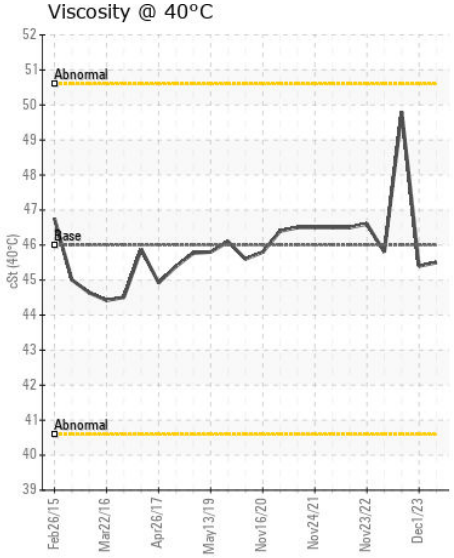
Ferrous Alloys



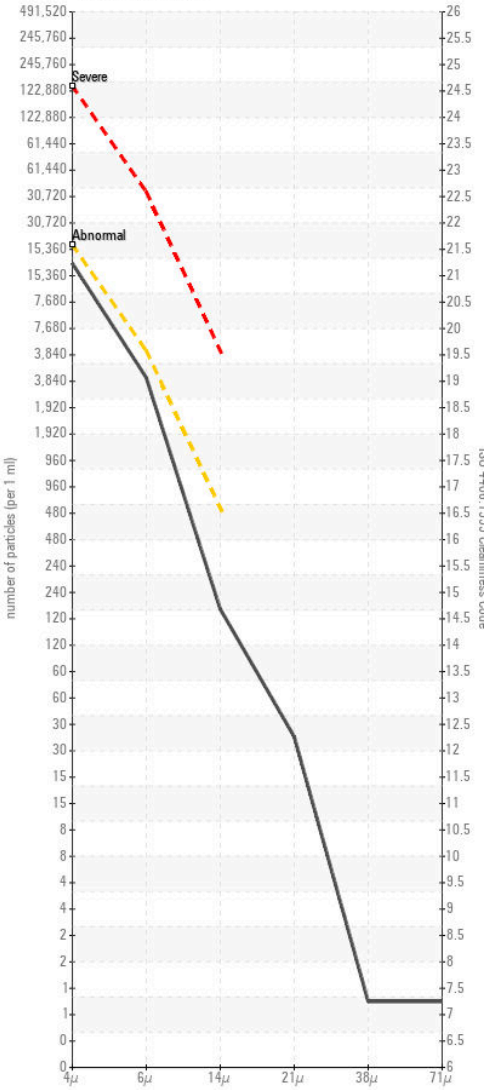
Non-ferrous Metals



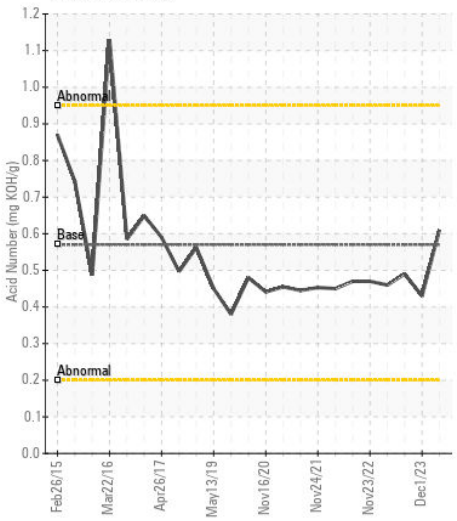
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0019071
Lab Number : 06150260
Unique Number : 10980338
Test Package : CONST

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Wes Davis

ADVANTAGE METALS RECYCLING - SEDALIA
300 N IRON AVE
SEDALIA, MO
US 65301
Contact: SCOTT TUTTLE
scott.tuttle@advantagerecycling.com
T: (660)827-1873
F: (660)827-5304

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)