CONST

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR L566 014293-460
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

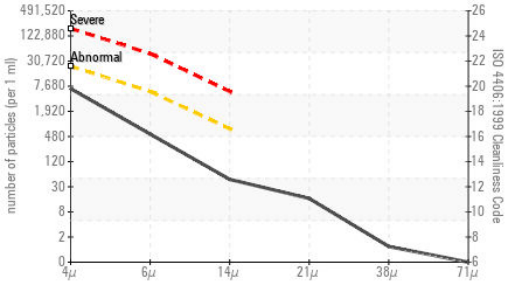
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

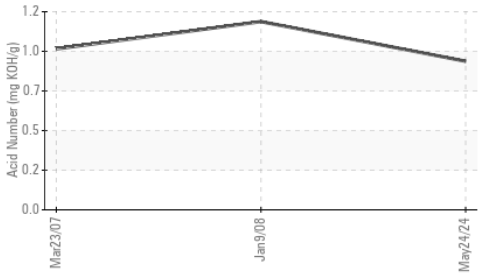
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0264558	LHMC012359	LHMC012016
Sample Date		Client Info		24 May 2024	09 Jan 2008	23 Mar 2007
Machine Age	hrs	Client Info		33900	5262	1022
Oil Age	hrs	Client Info		0	2000	1022
Filter Age	hrs	Client Info		0	0	1022
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	5	15	4
Chromium	ppm	ASTM D5185m	>10	0	2	1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	1	6	2
Copper	ppm	ASTM D5185m	>75	4	16	6
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	12	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	5856	25074	18542
Particles >6µm		ASTM D7647	>5000	481	▲ 13769	4221
Particles >14µm		ASTM D7647	>640	40	93	23
Particles >21µm		ASTM D7647	>160	14	14	3
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/12	▲ 22/21/14	21/19/12
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	4	5
Boron	ppm	ASTM D5185m		120	36	7
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		3	<1	0
Manganese	ppm	ASTM D5185m		0	3	<1
Magnesium	ppm	ASTM D5185m		29	18	8
Calcium	ppm	ASTM D5185m		3499	2111	1318
Phosphorus	ppm	ASTM D5185m		1147	682	368
Zinc	ppm	ASTM D5185m		1415	748	461
Sulfur	ppm	ASTM D5185m		5752	4997	4100
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	1.14	0.975
Visc @ 40°C	cSt	ASTM D445		49.0	56.03	63.38

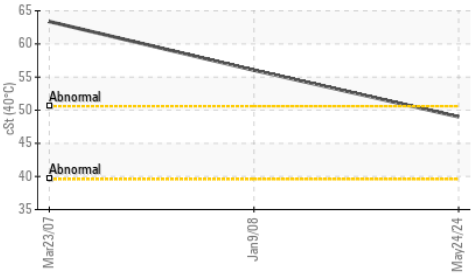
Particle Count



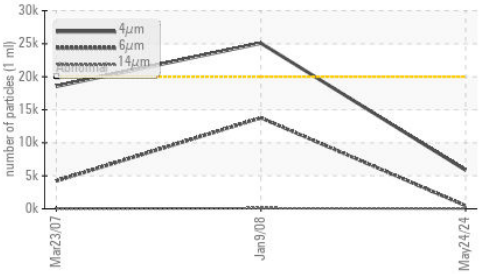
Acid Number



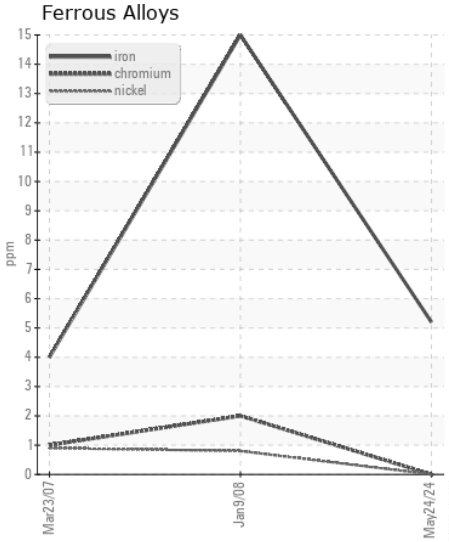
Viscosity @ 40°C



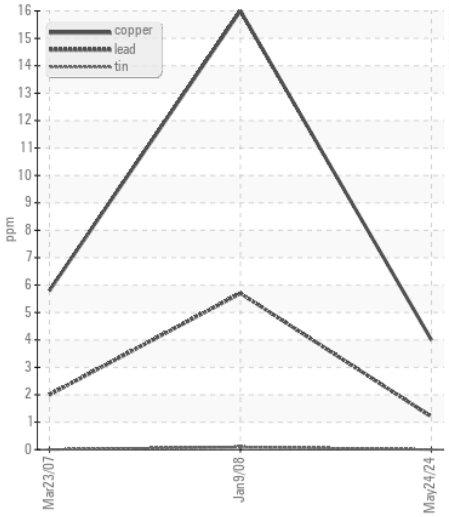
Particle Trend



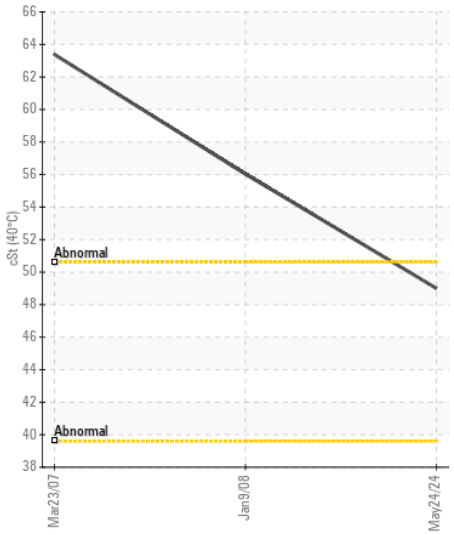
Ferrous Alloys



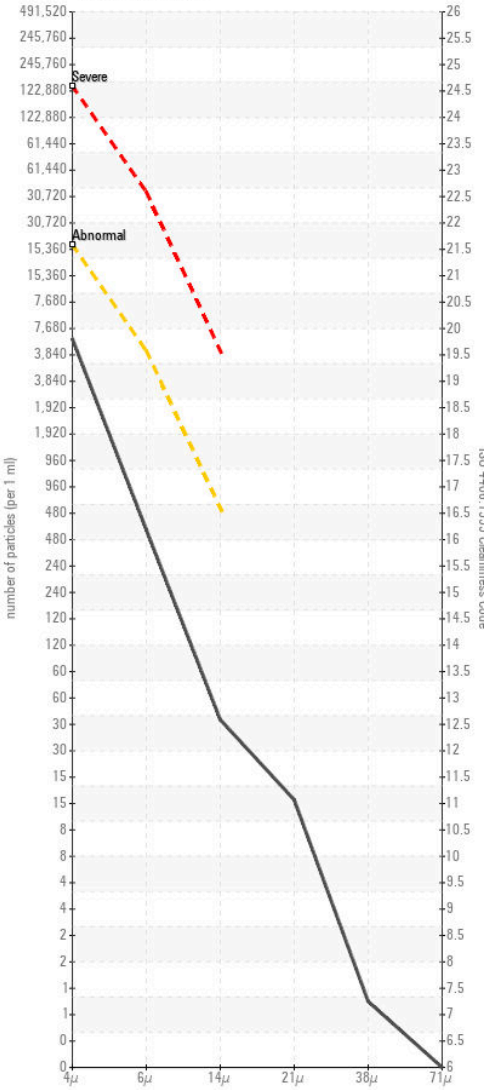
Non-ferrous Metals



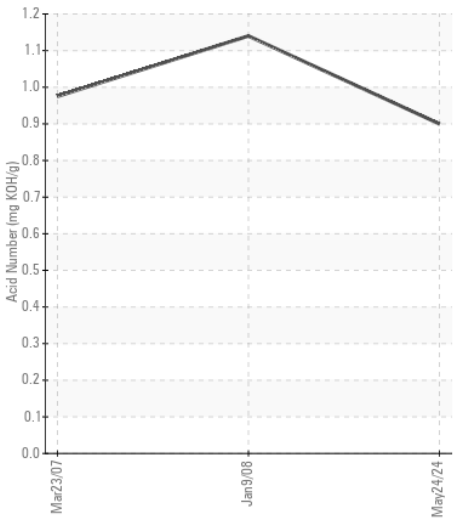
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0264558
Lab Number : 06196601
Unique Number : 11058724
Test Package : CONST

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Don Baldridge

Certificate L2367

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)

DOMTAR PULP AND PAPER
301 POINT BASSE AVE
NEKOOSA, WI
US 54457
Contact: MARK SNYDER
mark.snyder@domtar.com
T: (715)675-6900
F: (715)675-9748