CONST

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
062713-1419 LIEBHERR A934CHD 062713-1419
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. 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.

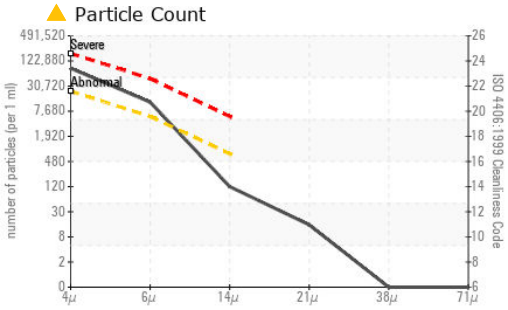
CONTAMINATION

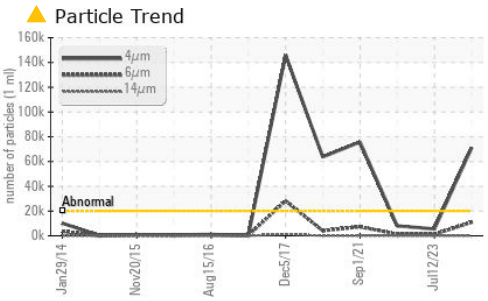
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

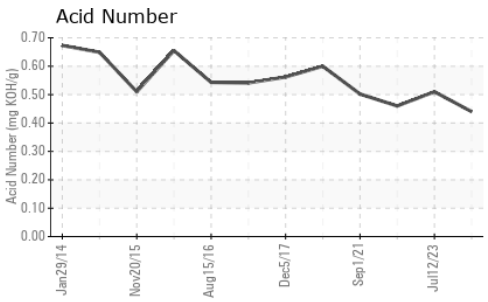
FLUID CONDITION

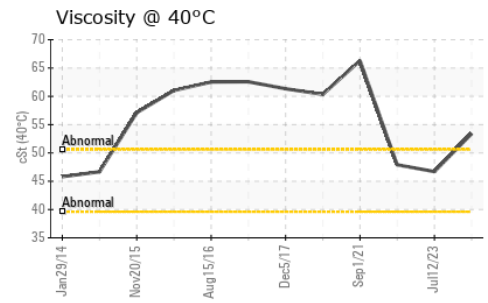
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

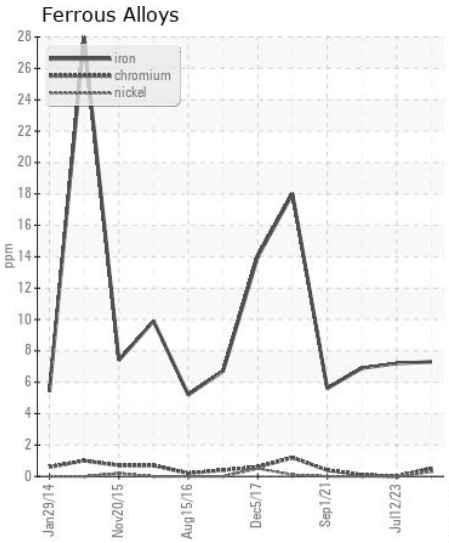
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023808	LH0229492	DJJ0011188
Sample Date		Client Info		13 Jun 2024	12 Jul 2023	09 Feb 2023
Machine Age	hrs	Client Info		12992	12515	12363
Oil Age	hrs	Client Info		0	0	12363
Filter Age	hrs	Client Info		0	500	1000
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	7	7	7
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>2	2	2	0
Lead	ppm	ASTM D5185m	>5	<1	0	0
Copper	ppm	ASTM D5185m	>15	1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	8	2	2
Potassium	ppm	ASTM D5185m	>20	16	14	16
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 71002	5505	8028
Particles >6µm		ASTM D7647	>5000	▲ 11011	1243	1318
Particles >14µm		ASTM D7647	>640	106	81	104
Particles >21µm		ASTM D7647	>160	13	20	25
Particles >38µm		ASTM D7647	>40	0	2	4
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 23/21/14	20/17/14	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		5	6	4
Boron	ppm	ASTM D5185m		31	32	33
Barium	ppm	ASTM D5185m		2	0	1
Molybdenum	ppm	ASTM D5185m		18	19	19
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		55	54	47
Calcium	ppm	ASTM D5185m		448	410	382
Phosphorus	ppm	ASTM D5185m		355	368	331
Zinc	ppm	ASTM D5185m		404	417	386
Sulfur	ppm	ASTM D5185m		2552	3425	2980
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.51	0.46
Visc @ 40°C	cSt	ASTM D445		53.4	46.7	47.9

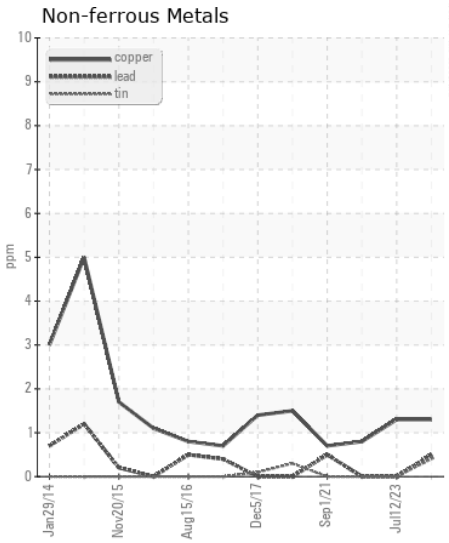


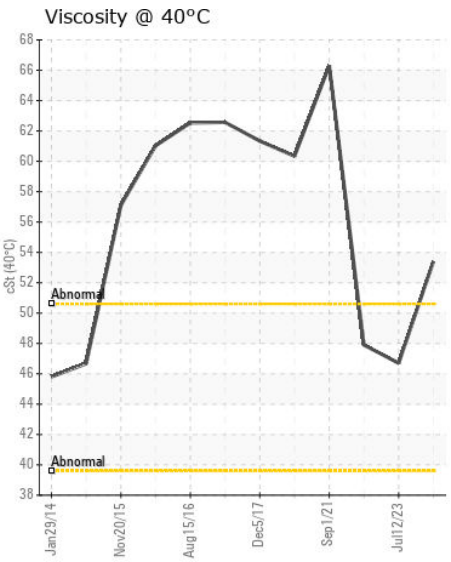


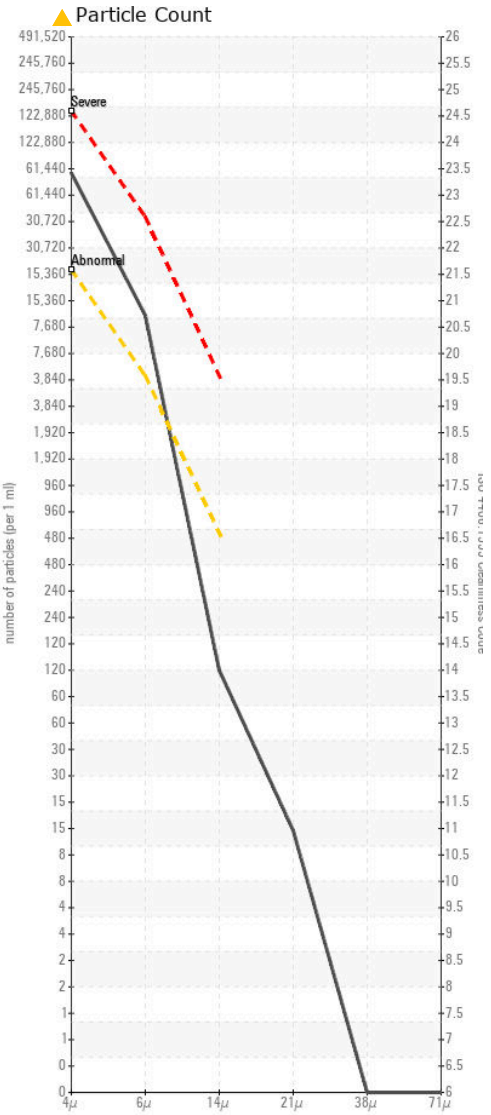


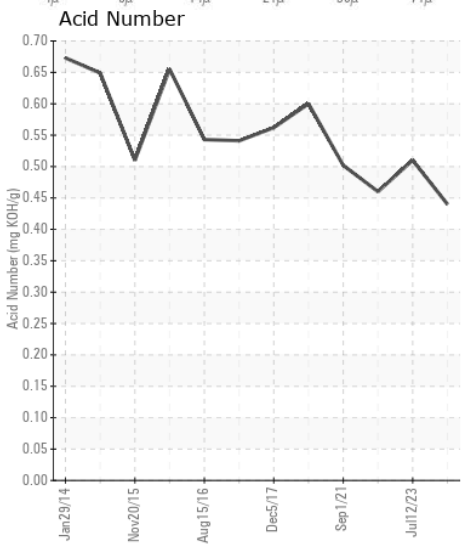












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: DJJ0023808	**Received**	: 18 Jun 2024
Lab Number	: 06213394	**Tested**	: 19 Jun 2024
Unique Number	: 11086258	**Diagnosed**	: 20 Jun 2024 - Don Baldridge
Test Package	: CONST		

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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