OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
HC1112
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

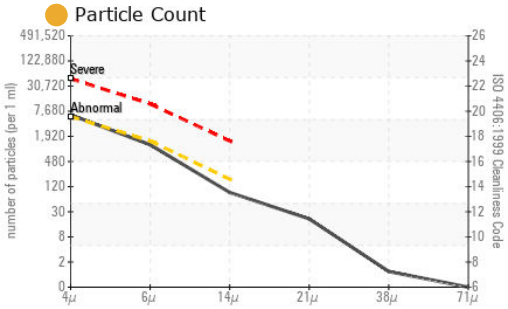
CONTAMINATION

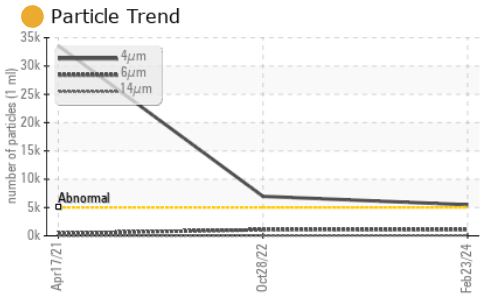
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

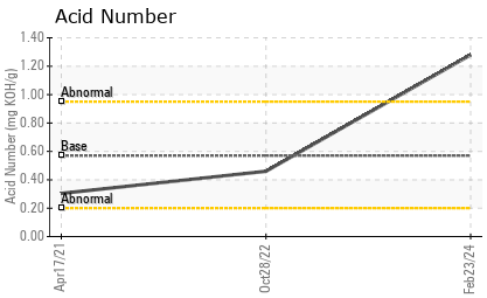
FLUID CONDITION

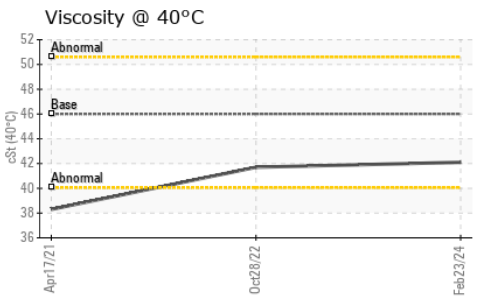
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

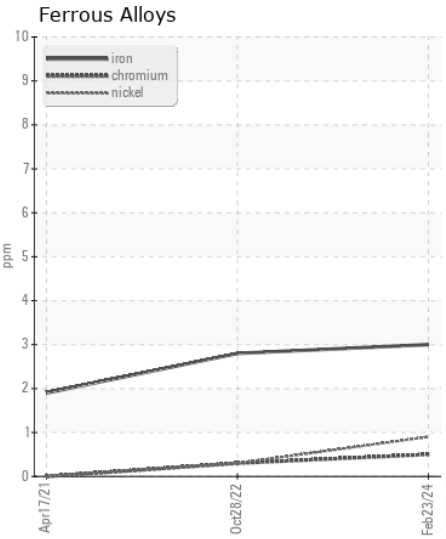
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0823524**	WC0720548	WC0567943
Sample Date		Client Info		**23 Feb 2024**	28 Oct 2022	17 Apr 2021
Machine Age	hrs	Client Info		**6555**	5627	5165
Oil Age	hrs	Client Info		**744**	345	1000
Filter Age	hrs	Client Info		**744**	345	1000
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ATTENTION**	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>20	**3**	3	2
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	4
Lead	ppm	ASTM D5185m	>10	**2**	<1	<1
Copper	ppm	ASTM D5185m	>75	**2**	2	3
Tin	ppm	ASTM D5185m	>10	**2**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	**1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>5000	**5489**	6974	33590
Particles >6µm		ASTM D7647	>1300	**1059**	1070	442
Particles >14µm		ASTM D7647	>160	**77**	55	19
Particles >21µm		ASTM D7647	>40	**18**	12	4
Particles >38µm		ASTM D7647	>10	**1**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**20/17/13**	20/17/13	22/16/11
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**2**	1	0
Boron	ppm	ASTM D5185m	5	**2**	1	2
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**1**	2	<1
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m	25	**12**	15	3
Calcium	ppm	ASTM D5185m	200	**157**	148	99
Phosphorus	ppm	ASTM D5185m	300	**397**	375	289
Zinc	ppm	ASTM D5185m	370	**514**	442	374
Sulfur	ppm	ASTM D5185m	2500	**2012**	2073	2023
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**1.28**	0.46	0.304
Visc @ 40°C	cSt	ASTM D445	46	**42.1**	41.7	38.3

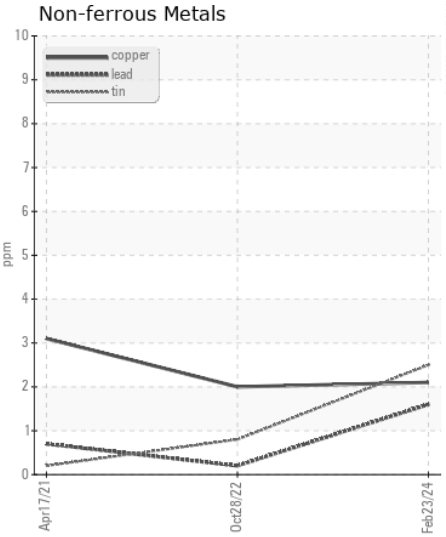


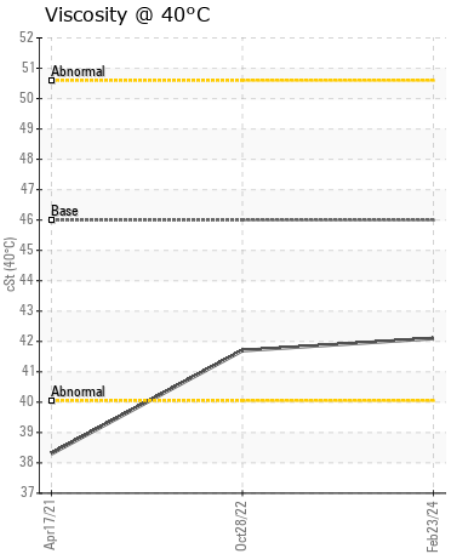


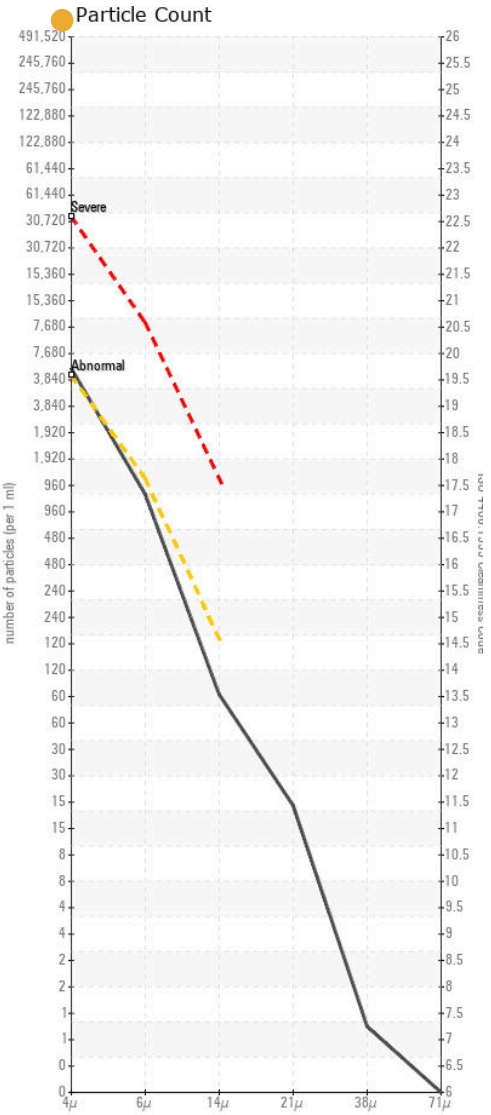


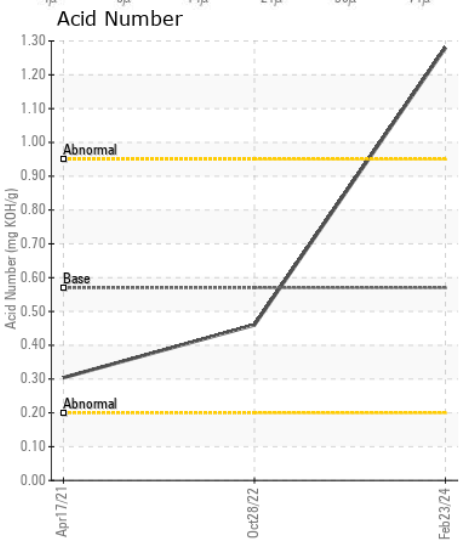












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0823524
Lab Number : 06103660
Unique Number : 10901890
Test Package : CONST
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 01 Mar 2024 - Don Baldridge

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)

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