MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
HIAB 220129
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

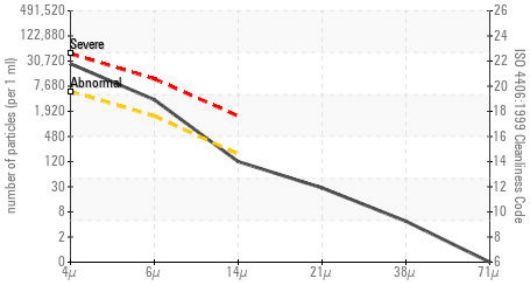
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

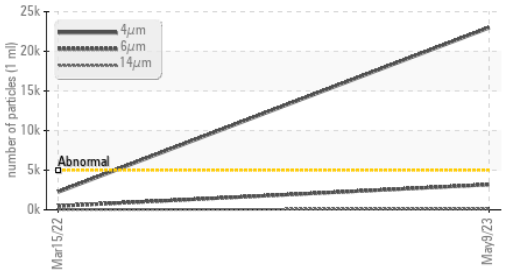
Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0689663	WC0622250	---
Sample Date		Client Info		09 May 2023	15 Mar 2022	---
Machine Age	yrs	Client Info		6	2	---
Oil Age	yrs	Client Info		6	2	---
Filter Age	yrs	Client Info		1	1	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>20	1	1	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	<1	<1	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>75	<1	2	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	<1	0	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 22979	2236	---
Particles >6µm		ASTM D7647	>1300	▲ 3181	475	---
Particles >14µm		ASTM D7647	>160	106	37	---
Particles >21µm		ASTM D7647	>40	25	9	---
Particles >38µm		ASTM D7647	>10	4	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/14	18/16/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m	5	0	<1	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	25	0	<1	---
Calcium	ppm	ASTM D5185m	200	28	91	---
Phosphorus	ppm	ASTM D5185m	300	304	597	---
Zinc	ppm	ASTM D5185m	370	384	780	---
Sulfur	ppm	ASTM D5185m	2500	693	1542	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.37	0.43	---
Visc @ 40°C	cSt	ASTM D445	32	▲ 24.4	33.3	---
Visc @ 100°C	cSt	ASTM D445	5.4	5.2	6.7	---
Viscosity Index (VI)	Scale	ASTM D2270	102	150	163	---

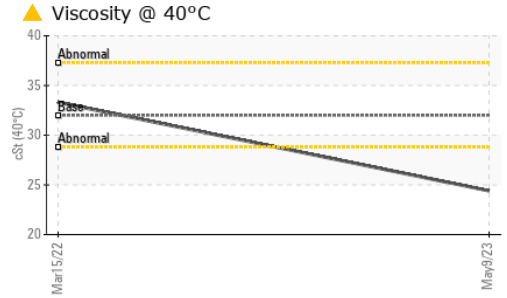
Particle Count



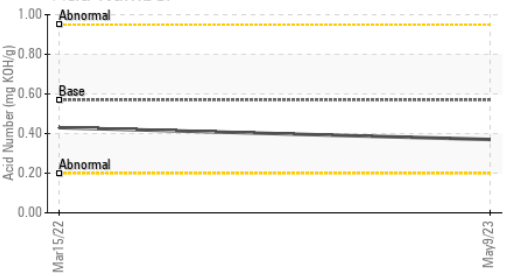
Particle Trend



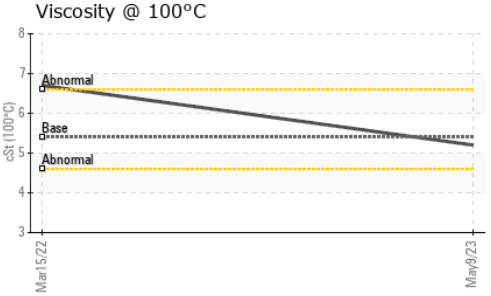
Viscosity @ 40°C



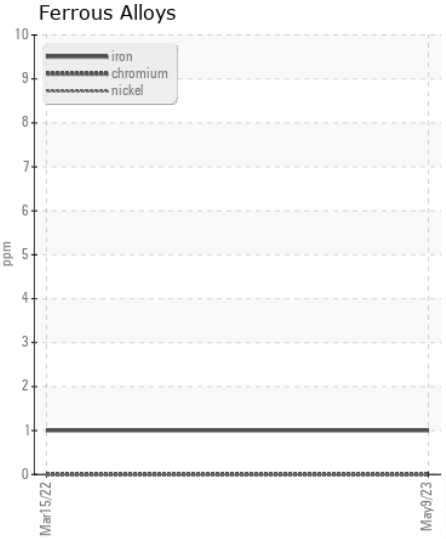
Acid Number



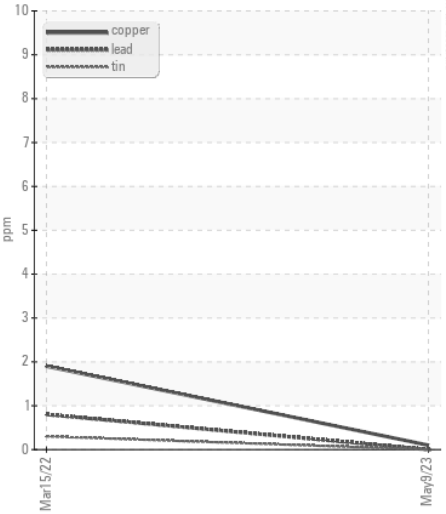
Viscosity @ 100°C



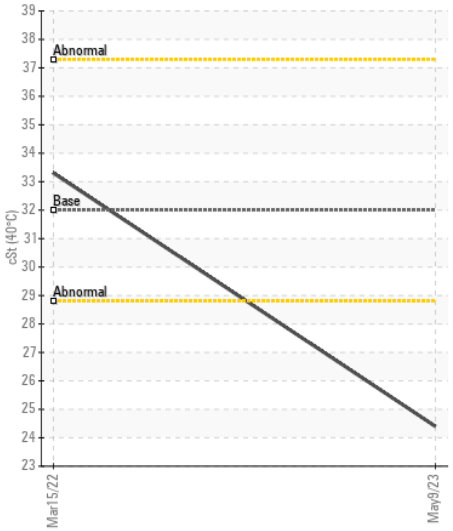
Ferrous Alloys



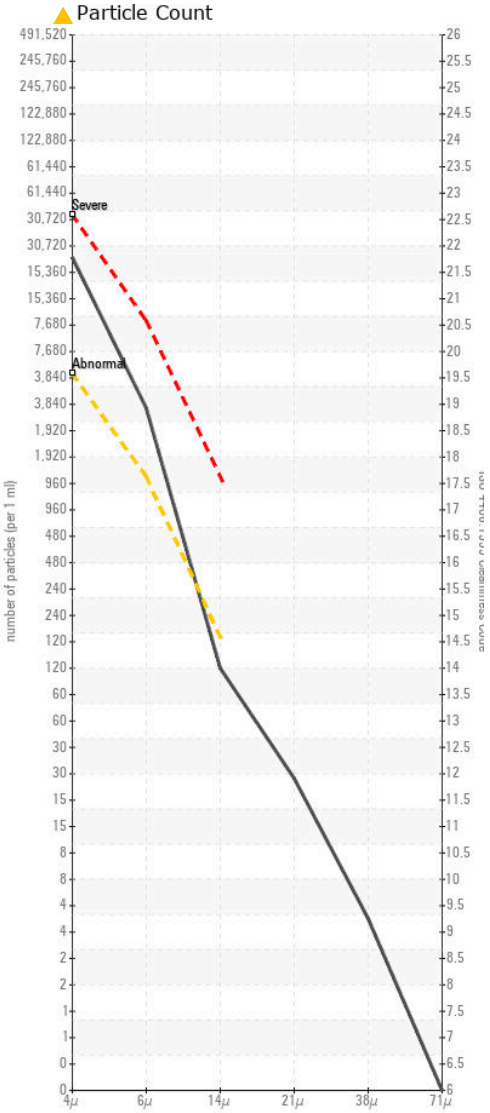
Non-ferrous Metals



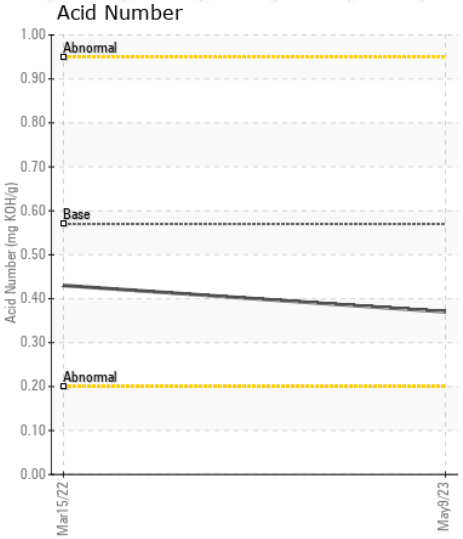
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0689663 **Recieved** : 19 May 2023
Lab Number : 05852407 **Diagnosed** : 24 May 2023
Unique Number : 10481762 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, VI)

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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