MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HIAB KB21937
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

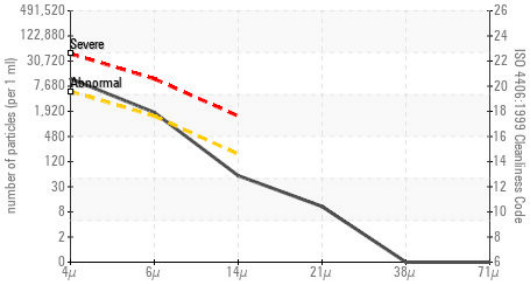
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

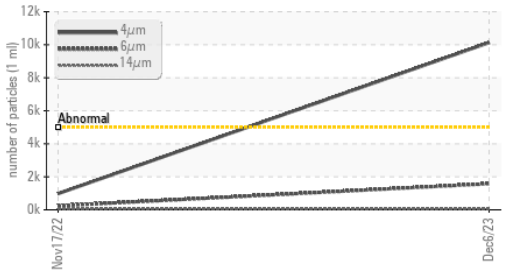
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0735086	WC0698815	---
Sample Date		Client Info		06 Dec 2023	17 Nov 2022	---
Machine Age	yrs	Client Info		0	0	---
Oil Age	yrs	Client Info		0	0	---
Filter Age	yrs	Client Info		0	1	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	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	0	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>75	2	1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
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	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 10131	980	---
Particles >6µm		ASTM D7647	>1300	▲ 1579	242	---
Particles >14µm		ASTM D7647	>160	49	55	---
Particles >21µm		ASTM D7647	>40	9	20	---
Particles >38µm		ASTM D7647	>10	0	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/13	17/15/13	---
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		0	0	---
Boron	ppm	ASTM D5185m	5	0	0	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	25	0	0	---
Calcium	ppm	ASTM D5185m	200	52	46	---
Phosphorus	ppm	ASTM D5185m	300	387	334	---
Zinc	ppm	ASTM D5185m	370	447	452	---
Sulfur	ppm	ASTM D5185m	2500	4520	4273	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.35	0.36	---
Visc @ 40°C	cSt	ASTM D445	32	35.8	36.5	---
Visc @ 100°C	cSt	ASTM D445	5.4	7	7.2	---
Viscosity Index (VI)	Scale	ASTM D2270	102	160	165	---

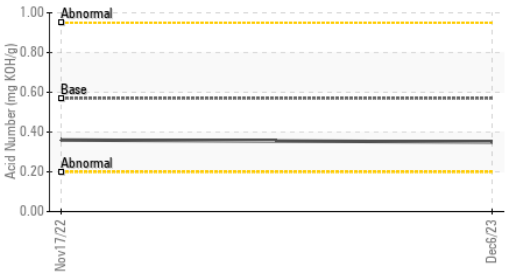
Particle Count



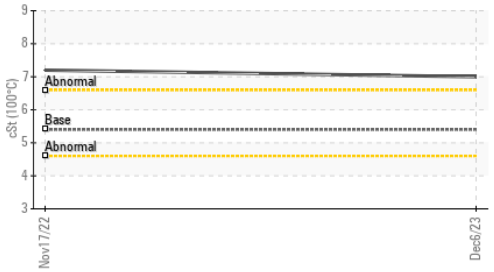
Particle Trend



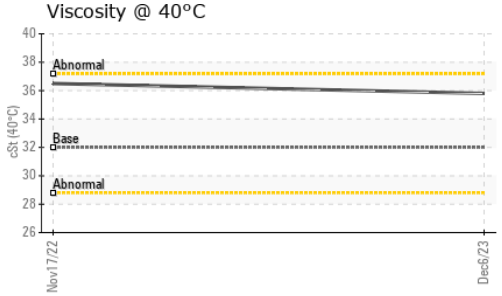
Acid Number



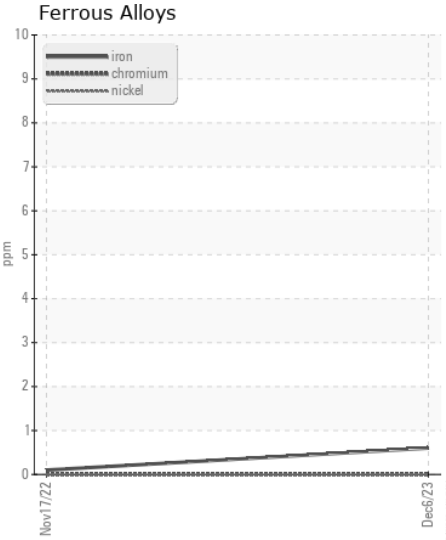
Viscosity @ 100°C



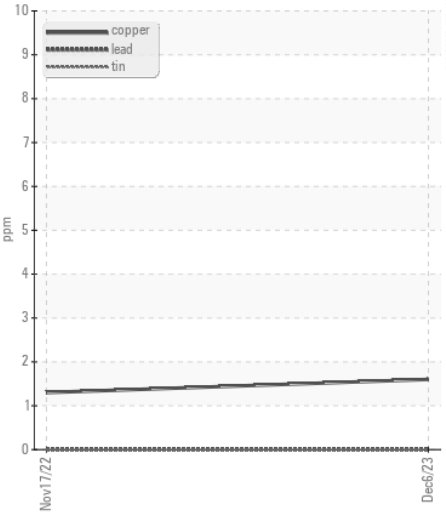
Viscosity @ 40°C



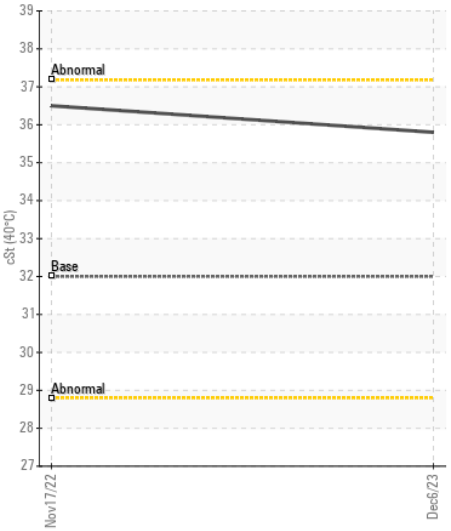
Ferrous Alloys



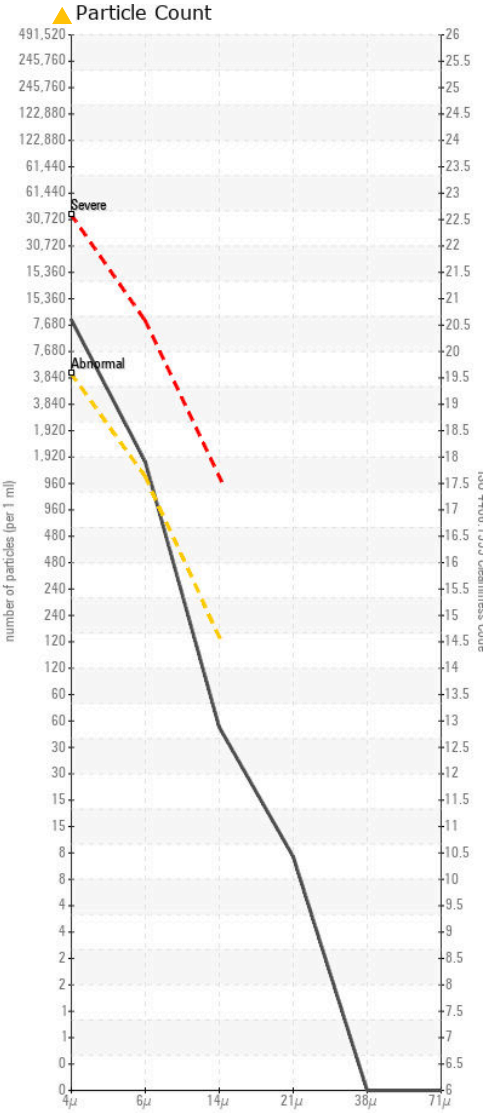
Non-ferrous Metals



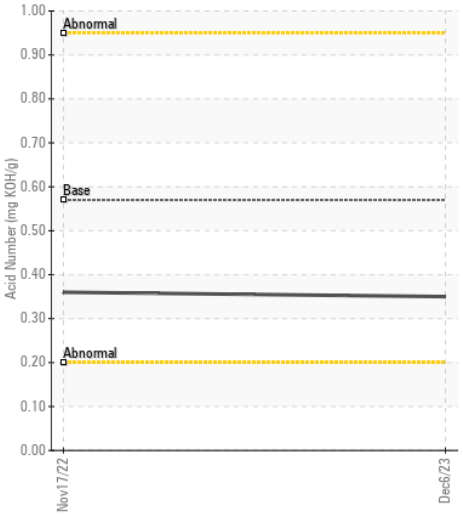
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0735086 **Recieved** : 17 Jan 2024
Lab Number : 06062649 **Diagnosed** : 19 Jan 2024
Unique Number : 10834031 **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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