



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Blending
 Machine Id
CP-92 Hot Oil Circulation Pump Unit (S/N BL015U10U)
 Component
Heat Transfer Fluid
 Fluid
HEAT TRANSFER FLUID ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0782897	WC0734610	---
Sample Date		Client Info		17 May 2023	16 Nov 2022	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	0	<1	---
Chromium	ppm	ASTM D5185m	>21	0	<1	---
Nickel	ppm	ASTM D5185m	>21	0	<1	---
Titanium	ppm	ASTM D5185m	>21	0	0	---
Silver	ppm	ASTM D5185m	>21	0	0	---
Aluminum	ppm	ASTM D5185m	>21	0	<1	---
Lead	ppm	ASTM D5185m	>21	0	<1	---
Copper	ppm	ASTM D5185m	>21	0	0	---
Tin	ppm	ASTM D5185m	>21	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

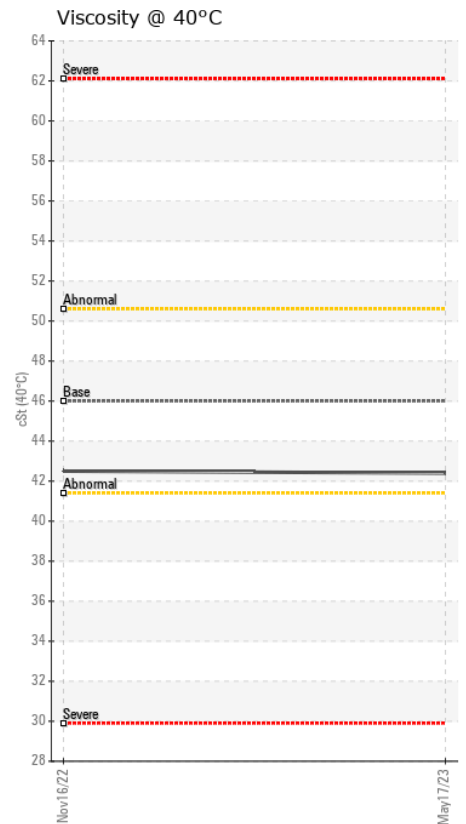
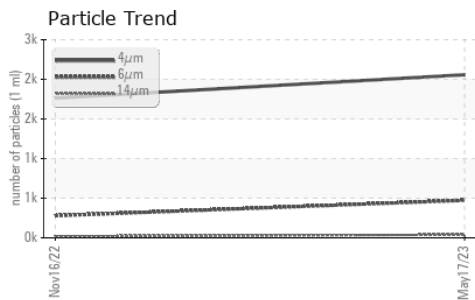
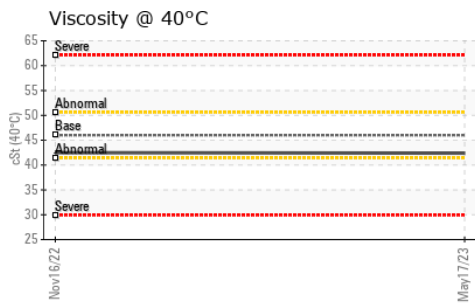
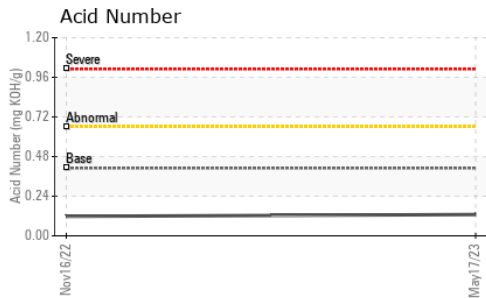
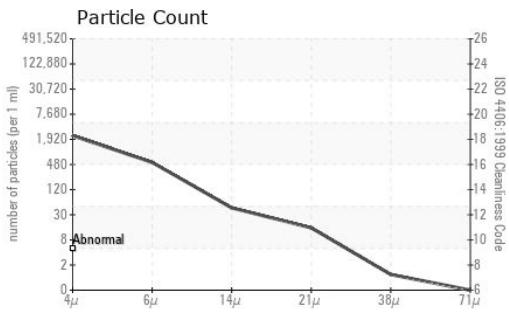
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	0	0	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>0.0601	NEG	NEG	---
Particles >4µm		ASTM D7647		2058	1763	---
Particles >6µm		ASTM D7647	>10240000	473	279	---
Particles >14µm		ASTM D7647	>10240000	39	19	---
Particles >21µm		ASTM D7647	>2560000	13	7	---
Particles >38µm		ASTM D7647	>640000	1	1	---
Particles >71µm		ASTM D7647	>160000	0	0	---
Oil Cleanliness		ISO 4406 (c)	>-/30/30	18/16/12	18/15/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.0601	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>21	0	<1	---
Boron	ppm	ASTM D5185m	5	0	<1	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	5	<1	1	---
Calcium	ppm	ASTM D5185m	5	269	263	---
Phosphorus	ppm	ASTM D5185m	250	4	8	---
Zinc	ppm	ASTM D5185m	5	0	0	---
Sulfur	ppm	ASTM D5185m	3000	162	0	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.41	0.129	0.118	---
Visc @ 40°C	cSt	ASTM D445	46	42.4	42.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782897 **Received** : 22 May 2023
Lab Number : 05853918 **Tested** : 23 May 2023
Unique Number : 10483273 **Diagnosed** : 24 May 2023 - Doug Bogart
Test Package : IND 2 (Additional Tests: PrtCount)

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)

J.M. Huber Corporation
 PO BOX 38
 CRYSTAL HILL, VA
 US 24539
 Contact: Ted Hudson
 ted.hudson@huber.com
 T: (434)476-6628
 F: (434)476-8133