



# 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		<b>WC0834708</b>	WC0782897	WC0734610
Sample Date		Client Info		<b>14 Nov 2023</b>	17 May 2023	16 Nov 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

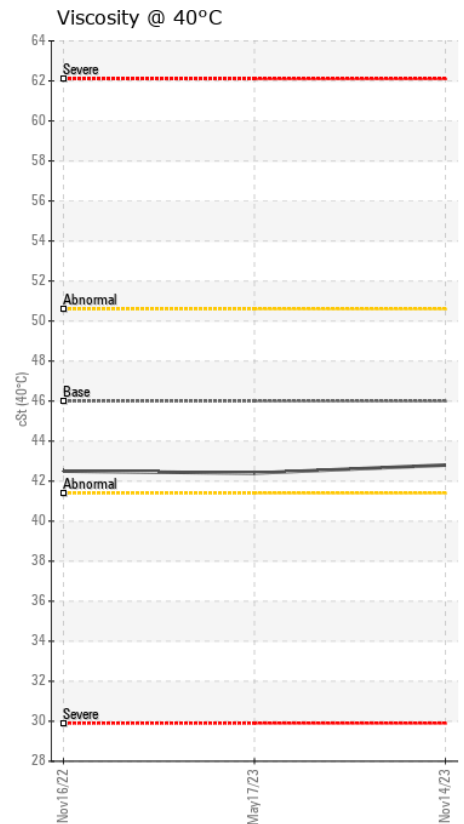
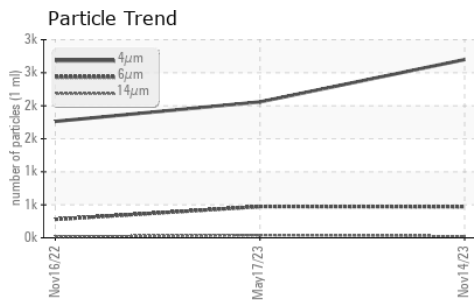
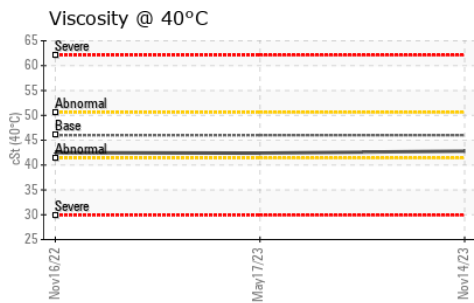
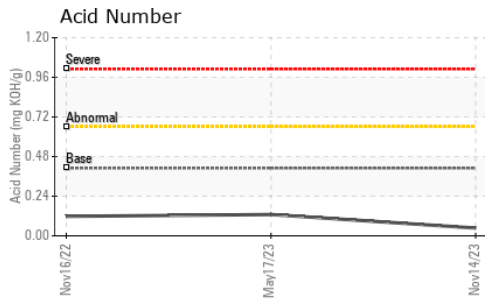
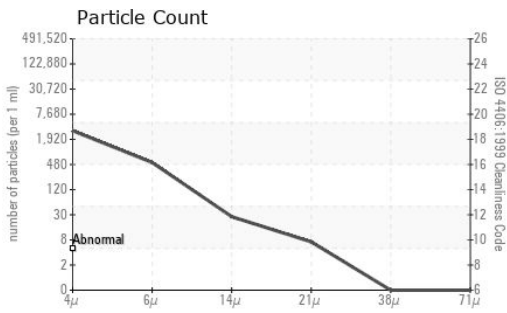
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0
Water		WC Method	>0.0601	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>2699</b>	2058	1763
Particles >6µm		ASTM D7647	>10240000	<b>470</b>	473	279
Particles >14µm		ASTM D7647	>10240000	<b>24</b>	39	19
Particles >21µm		ASTM D7647	>2560000	<b>6</b>	13	7
Particles >38µm		ASTM D7647	>640000	<b>0</b>	1	1
Particles >71µm		ASTM D7647	>160000	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/30/30	<b>19/16/12</b>	18/16/12	18/15/11
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.0601	<b>NEG</b>	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	<b>0</b>	0	<1
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	5	<b>0</b>	<1	1
Calcium	ppm	ASTM D5185m	5	<b>233</b>	269	263
Phosphorus	ppm	ASTM D5185m	250	<b>0</b>	4	8
Zinc	ppm	ASTM D5185m	5	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	3000	<b>41</b>	162	0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.41	<b>0.047</b>	0.129	0.118
Visc @ 40°C	cSt	ASTM D445	46	<b>42.8</b>	42.4	42.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0834708 **Received** : 17 Nov 2023  
**Lab Number** : 06011458 **Tested** : 21 Nov 2023  
**Unique Number** : 10750602 **Diagnosed** : 21 Nov 2023 - Don Baldrige  
**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)

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