



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**HPU-3**  
 Component  
**Hydraulic System**  
 Fluid  
**DURALENE ZD AW 100 (--- LTR)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0027418</b>	DC0027578	DC0027576
Sample Date		Client Info		<b>09 Jul 2024</b>	10 Jan 2024	10 Jan 2024
Machine Age	mths	Client Info		<b>0</b>	0	15
Oil Age	mths	Client Info		<b>0</b>	0	0
Filter Age	mths	Client Info		<b>3</b>	1	1
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>18</b>	11	9
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

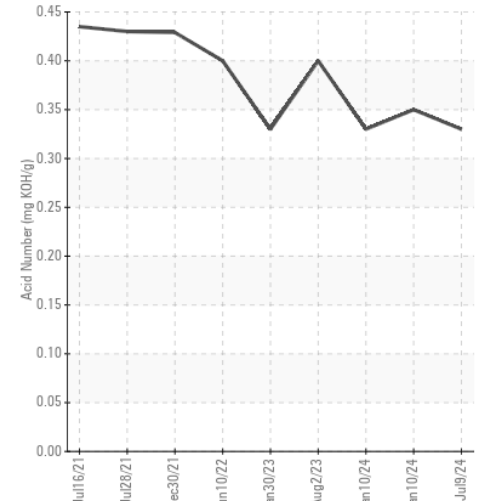
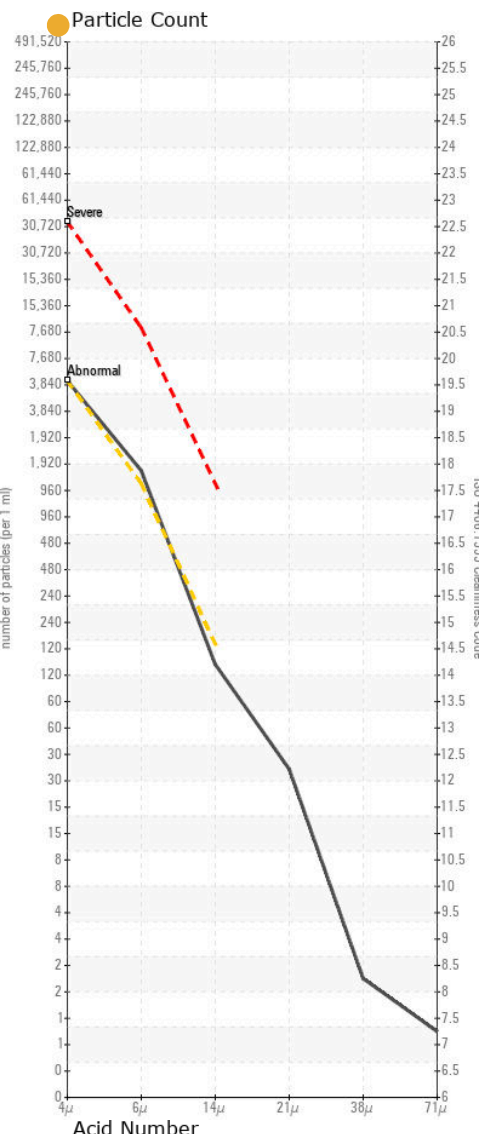
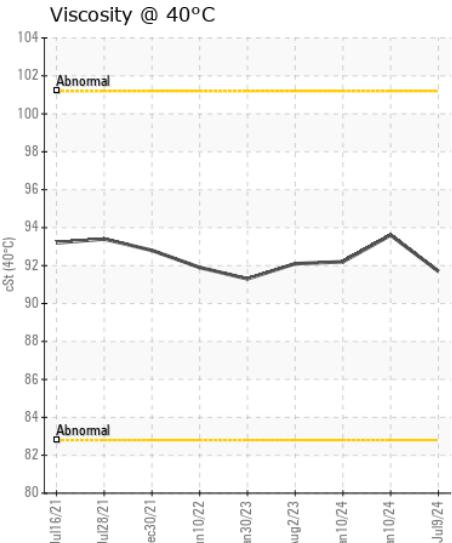
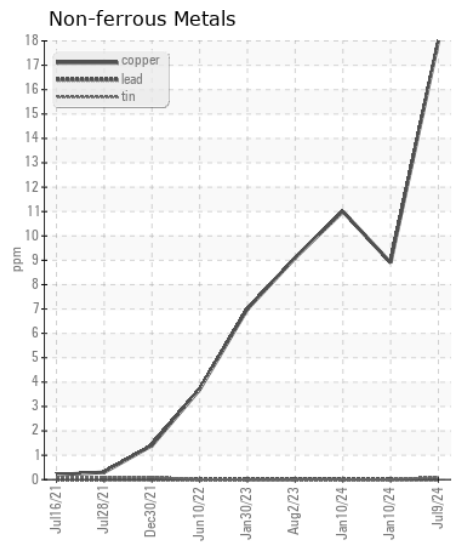
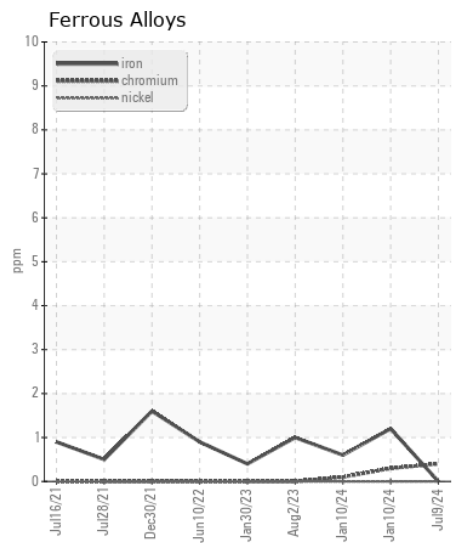
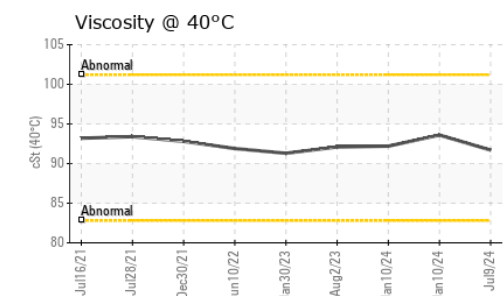
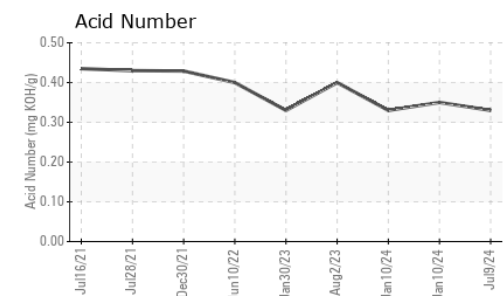
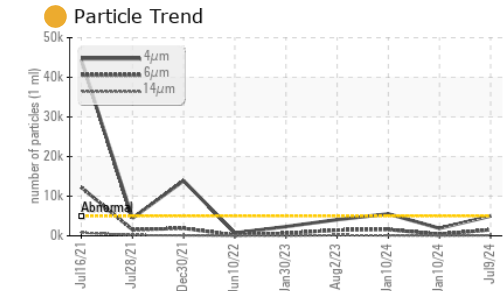
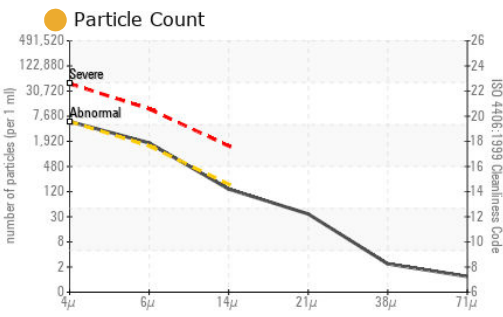
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>4999</b>	5533	1894
Particles >6µm		ASTM D7647	>1300	<b>1539</b>	1596	393
Particles >14µm		ASTM D7647	>160	<b>122</b>	107	29
Particles >21µm		ASTM D7647	>40	<b>31</b>	24	9
Particles >38µm		ASTM D7647	>10	<b>2</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/18/14</b>	20/18/14	18/16/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>2</b>	2	2
Barium	ppm	ASTM D5185m		<b>1</b>	8	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>90</b>	82	99
Calcium	ppm	ASTM D5185m		<b>202</b>	172	199
Phosphorus	ppm	ASTM D5185m		<b>316</b>	320	386
Zinc	ppm	ASTM D5185m		<b>440</b>	377	437
Sulfur	ppm	ASTM D5185m		<b>8003</b>	7440	9400
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.33</b>	0.35	0.33
Visc @ 40°C	cSt	ASTM D445		<b>91.7</b>	93.6	92.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0027418  
**Lab Number** : 06240264  
**Unique Number** : 11129098  
**Test Package** : MOB 2  
**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Wes Davis

**CONSERVIT INC.**  
 PO BOX 1517  
 HAGERSTOWN, MD  
 US 21740  
 Contact: DON LONG

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)

T: (301)791-0100  
 F: (301)739-8548