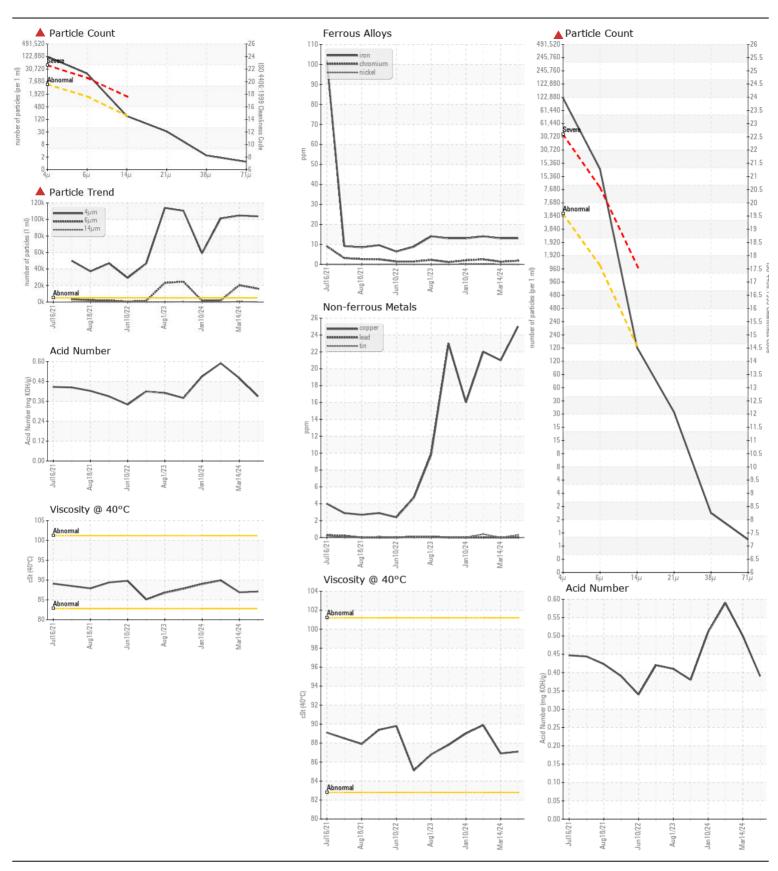
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL SEVERE NORMAL**

Machine Id HPU-4

Component Hydraulic System Fluid

DURALENE ZD AW 100 (LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.	Sample Number		Client Info		DC0009083	DC0027416	DC0027582
	Sample Date		Client Info		09 Jul 2024	14 Mar 2024	09 Feb 2024
	Machine Age	mths	Client Info		0	16	16
	Oil Age	mths	Client Info		0	0	2
	Filter Age	mths	Client Info		3	0	1
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	13	13	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2	1	2
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		4	0	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		25	21	22
	Tin	ppm	ASTM D5185m	>10	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	4
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	1	0	<1
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		103764	<u> </u>	<u>▲</u> 101125
	Particles >6µm		ASTM D7647		16195	<u>^</u> 20326	1933
	Particles >14μm		ASTM D7647		152	<u></u> 404	50
	Particles >21µm		ASTM D7647		28	6 9	15
	Particles >38µm		ASTM D7647		2	1	0
	Particles >71μm		ASTM D7647		1	0	0
	Oil Cleanliness		ISO 4406 (c)		24/21/14	<u>A</u> 24/22/16	<u>24/18/13</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0	1	<1
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185m		2	1	4
	Barium	ppm	ASTM D5185m		20	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	1
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		79	75	85
	Calcium	ppm	ASTM D5185m		190	200	181
	Phosphorus	ppm	ASTM D5185m		311	343	349
	Zinc	ppm	ASTM D5185m		426	394	431
	Sulfur	ppm	ASTM D5185m		7670	8711	8681
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.50	0.59
	Visc @ 40°C	cSt	ASTM D445		87.1	86.9	89.9





Certificate L2367

Laboratory Sample No.

Lab Number

: DC0009083 : 06240262 Unique Number: 11129096 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 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