



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0027576	DC0024535	DC0024532
Sample Date		Client Info		10 Jan 2024	02 Aug 2023	30 Jan 2023
Machine Age	yrs	Client Info		15	0	0
Oil Age	yrs	Client Info		0	0	0
Filter Age	yrs	Client Info		1	6	6
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	1	1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	9	9	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

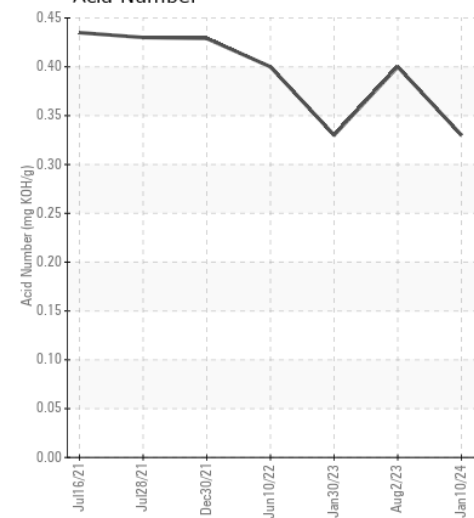
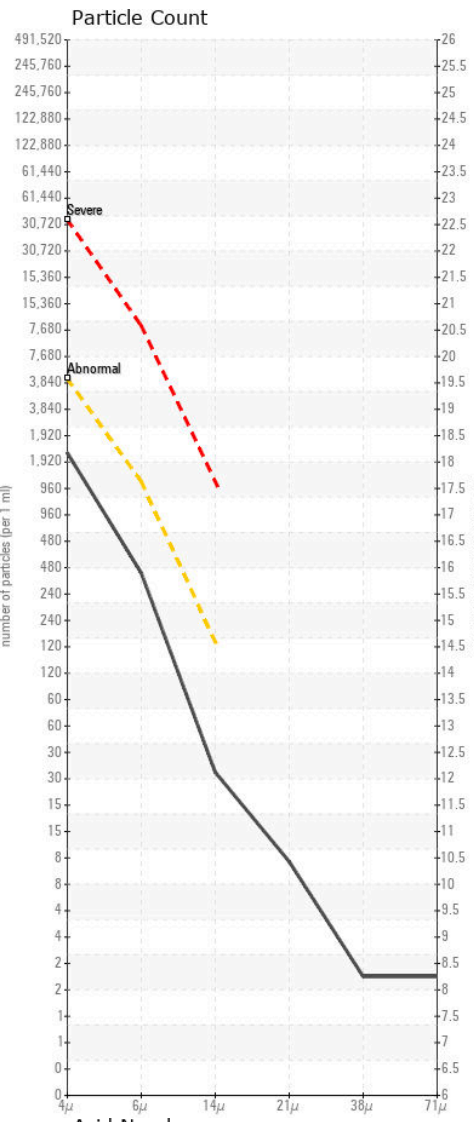
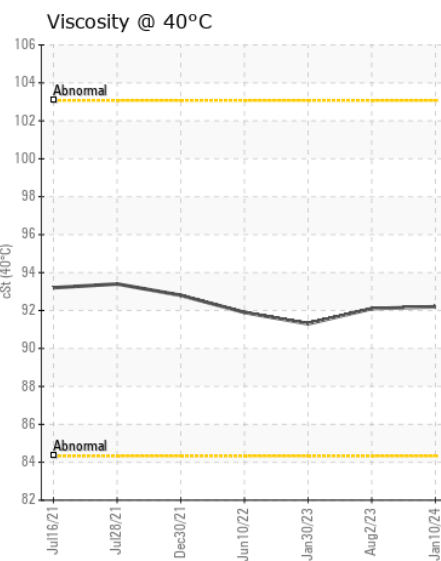
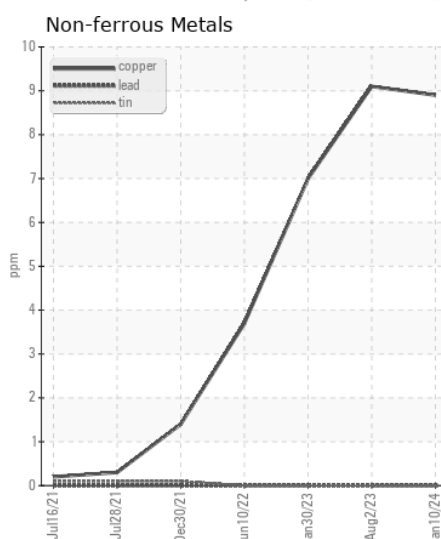
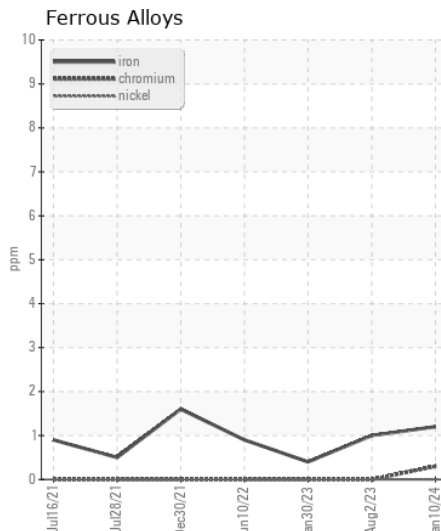
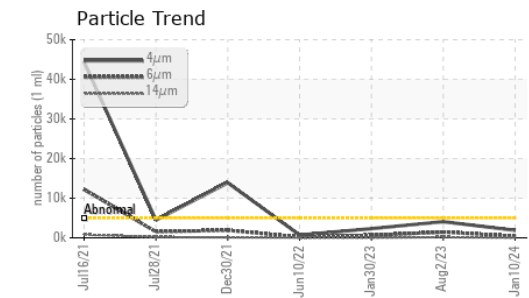
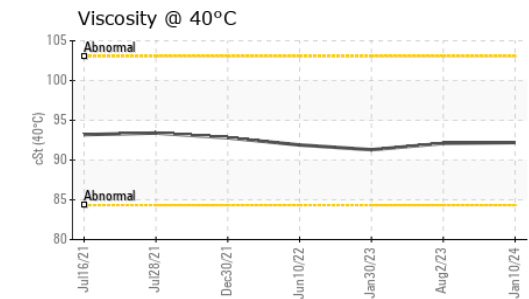
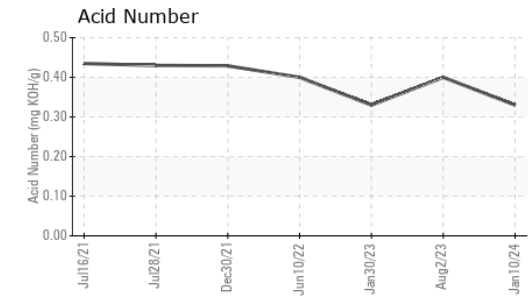
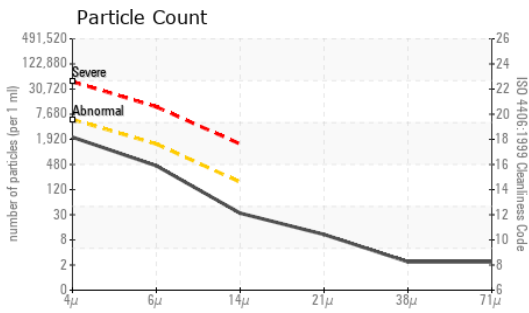
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1894	4071	2317
Particles >6µm		ASTM D7647	>1300	393	▲ 1457	637
Particles >14µm		ASTM D7647	>160	29	▲ 162	33
Particles >21µm		ASTM D7647	>40	9	44	5
Particles >38µm		ASTM D7647	>10	2	2	1
Particles >71µm		ASTM D7647	>3	2	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	▲ 19/18/15	18/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		0	2	<1
Boron	ppm	ASTM D5185m		2	<1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		99	103	92
Calcium	ppm	ASTM D5185m		199	172	167
Phosphorus	ppm	ASTM D5185m		386	351	347
Zinc	ppm	ASTM D5185m		437	457	410
Sulfur	ppm	ASTM D5185m		9400	9972	8522
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.40	0.33
Visc @ 40°C	cSt	ASTM D445		92.2	92.1	91.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0027576 **Received** : 11 Jan 2024
Lab Number : 06058719 **Diagnosed** : 16 Jan 2024
Unique Number : 10830101 **Diagnostician** : Don Baldrige
Test Package : MOB 2

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

Certificate L2367
 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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