



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HPU-4
Component
Hydraulic System
Fluid
DURALENE ZD AW 100 (--- LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0027582	DC0027579	DC0027575
Sample Date		Client Info		09 Feb 2024	10 Jan 2024	10 Jan 2024
Machine Age	yrs	Client Info		16	0	15
Oil Age	yrs	Client Info		2	0	0
Filter Age	yrs	Client Info		1	1	1
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	14	13	13
Chromium	ppm	ASTM D5185m	>10	2	1	2
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	22	23	16
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

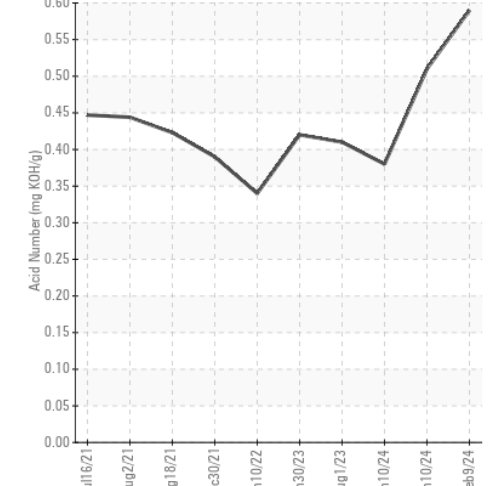
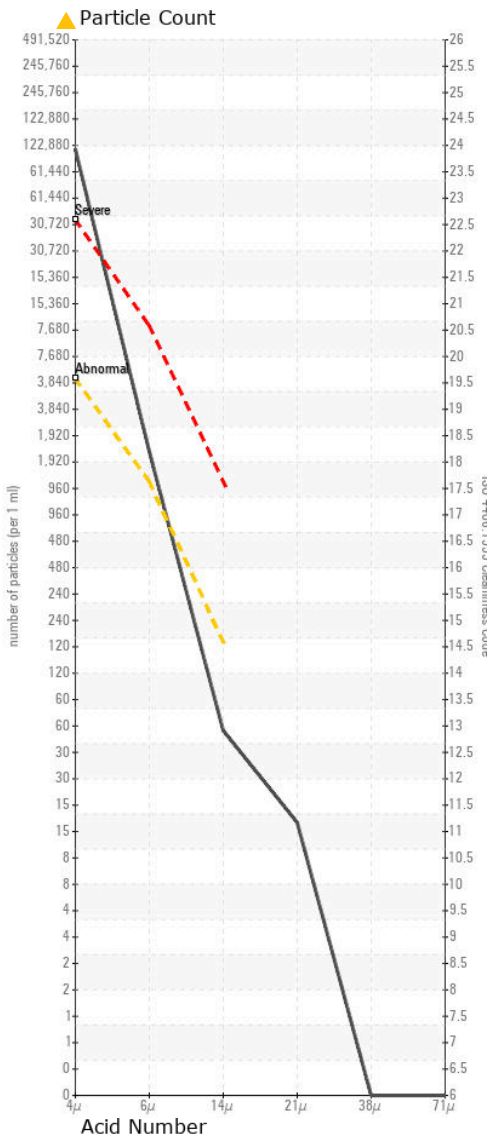
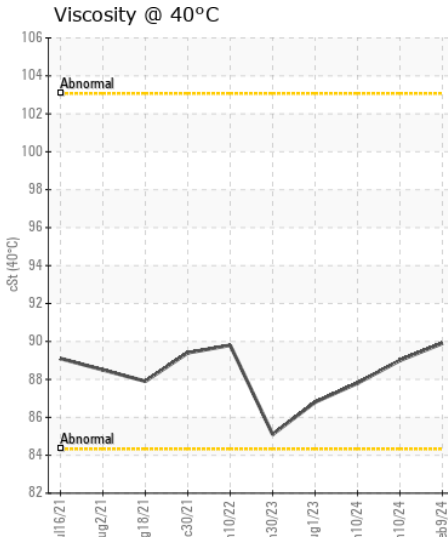
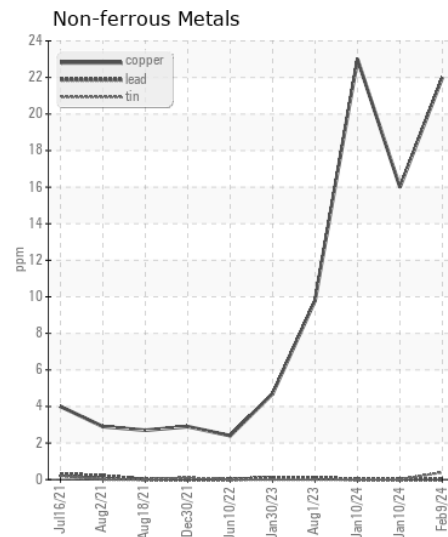
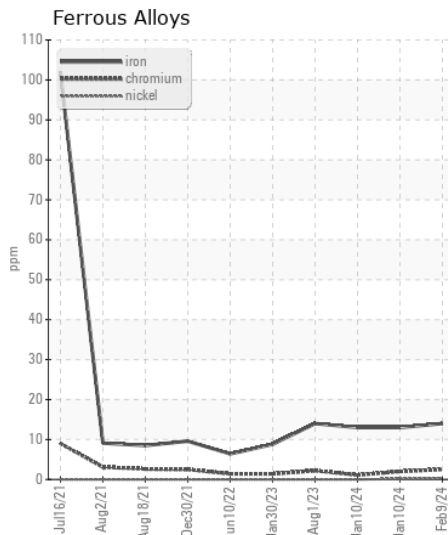
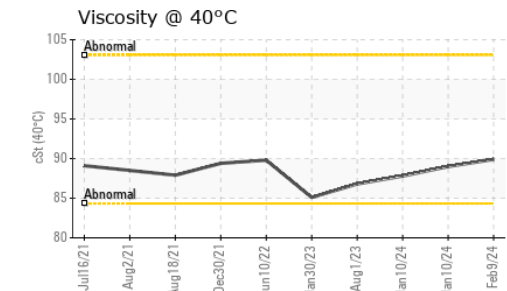
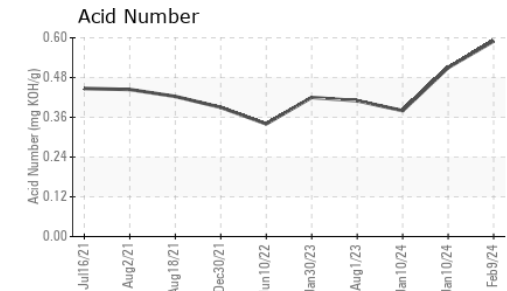
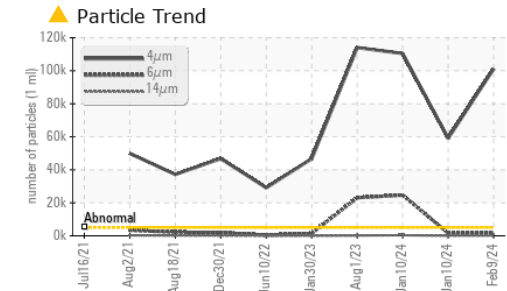
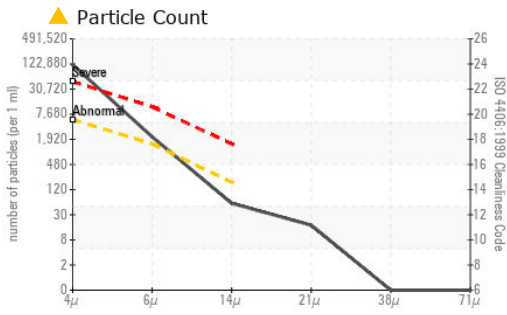
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	3	5
Potassium	ppm	ASTM D5185m	>20	<1	1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 101125	▲ 110424	▲ 59044
Particles >6µm		ASTM D7647	>1300	● 1933	▲ 24682	● 1615
Particles >14µm		ASTM D7647	>160	50	▲ 372	46
Particles >21µm		ASTM D7647	>40	15	● 66	19
Particles >38µm		ASTM D7647	>10	0	3	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/18/13	▲ 24/22/16	▲ 23/18/13
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		<1	0	<1
Boron	ppm	ASTM D5185m		4	2	2
Barium	ppm	ASTM D5185m		0	8	0
Molybdenum	ppm	ASTM D5185m		1	0	1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		85	72	112
Calcium	ppm	ASTM D5185m		181	169	240
Phosphorus	ppm	ASTM D5185m		349	325	475
Zinc	ppm	ASTM D5185m		431	366	521
Sulfur	ppm	ASTM D5185m		8681	7275	11080
Acid Number (AN)	mg KOH/g	ASTM D8045		0.59	0.51	0.38
Visc @ 40°C	cSt	ASTM D445		89.9	89.0	87.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0027582
Lab Number : 06104302
Unique Number : 10902532
Test Package : MOB 2
Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 02 Mar 2024 - Don Baldrige

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)

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