



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
PUTZMEISTER 151 (S/N 210604153)
 Component
Hydraulic System
 Fluid
DURALENE ZD AW 46 (150 GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0032415	DC05872650	DC0016263
Sample Date		Client Info		31 May 2024	24 May 2023	21 Jul 2022
Machine Age	hrs	Client Info		2427	8449	1830
Oil Age	hrs	Client Info		0	0	1830
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Filtered
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	8	15	10
Chromium	ppm	ASTM D5185m	>10	3	5	5
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	5	7	4
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	3	3	3
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

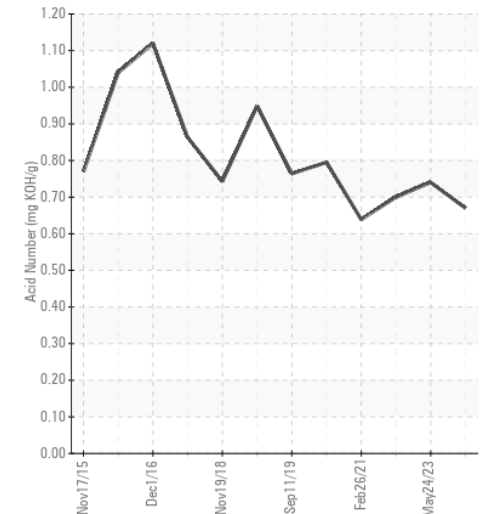
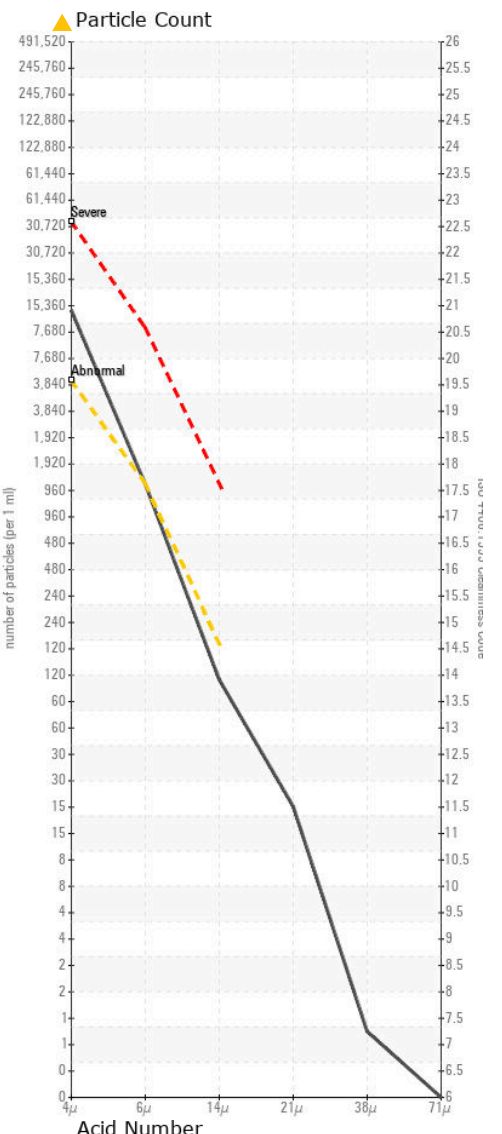
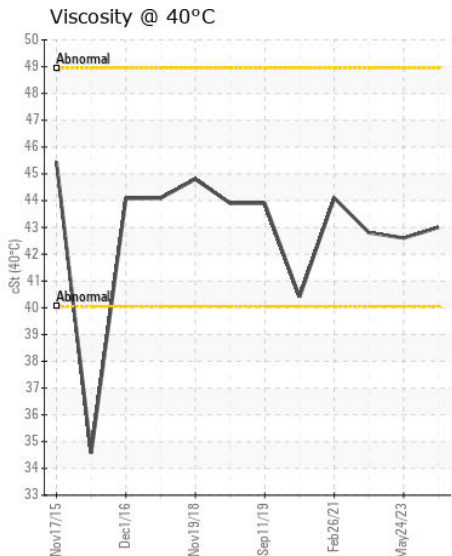
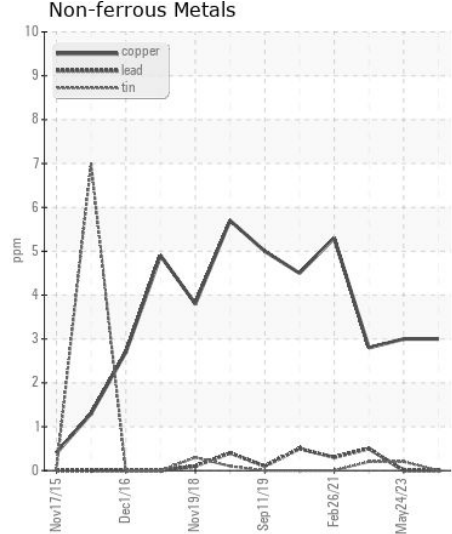
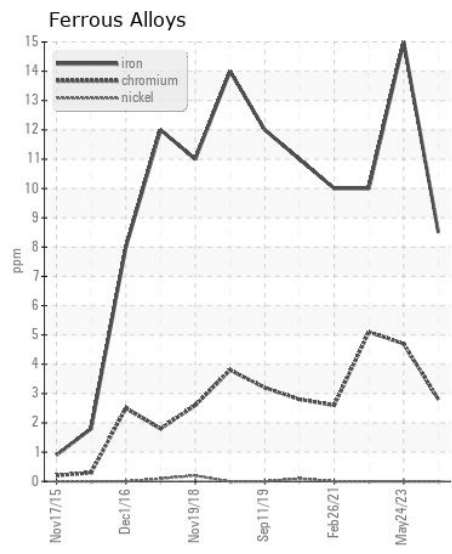
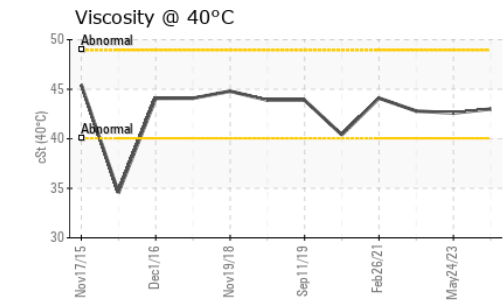
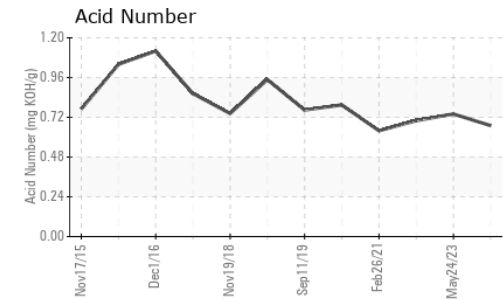
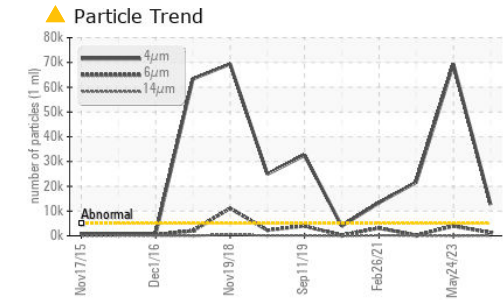
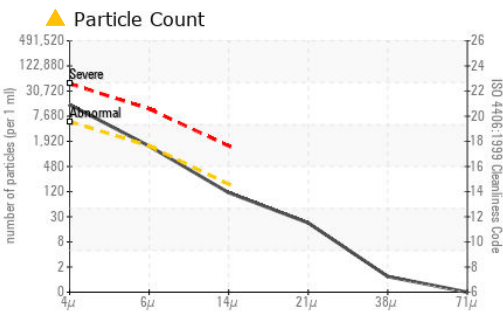
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	16	10
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 12590	▲ 69352	▲ 21609
Particles >6µm		ASTM D7647	>1300	1291	▲ 3968	224
Particles >14µm		ASTM D7647	>160	100	17	12
Particles >21µm		ASTM D7647	>40	19	4	5
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/14	▲ 23/19/11	▲ 22/15/11
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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		4	2	5
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		104	114	166
Calcium	ppm	ASTM D5185m		195	217	208
Phosphorus	ppm	ASTM D5185m		605	676	684
Zinc	ppm	ASTM D5185m		713	787	811
Sulfur	ppm	ASTM D5185m		2073	2469	2939
Acid Number (AN)	mg KOH/g	ASTM D8045		0.67	0.74	0.70
Visc @ 40°C	cSt	ASTM D445		43.0	42.6	42.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0032415
Lab Number : 06197580
Unique Number : 11059703
Test Package : MOB 2
Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Wes Davis

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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)