



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 4 - Fairmont [RO#148039]

Machine Id
KLEEMANN MSS 802I K1020089

Component
Hydraulic System

Fluid
WIRTGEN GROUP HYDRAULIC OIL HVLP 46 (106 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Need Rushed/Prev sample bad)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050014	LEC0048763	LEC0041352
Sample Date		Client Info		09 May 2024	24 Apr 2024	09 Jun 2023
Machine Age	hrs	Client Info		926	923	532
Oil Age	hrs	Client Info		926	923	532
Filter Age	hrs	Client Info		3	923	532
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<1	2	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>75	0	0	<1
Tin	ppm	ASTM D5185m	>10	0	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

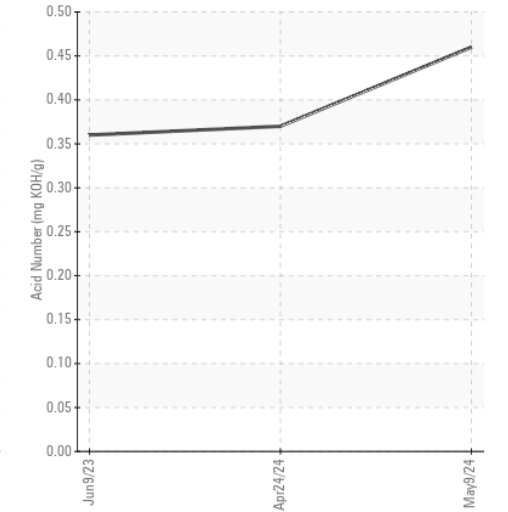
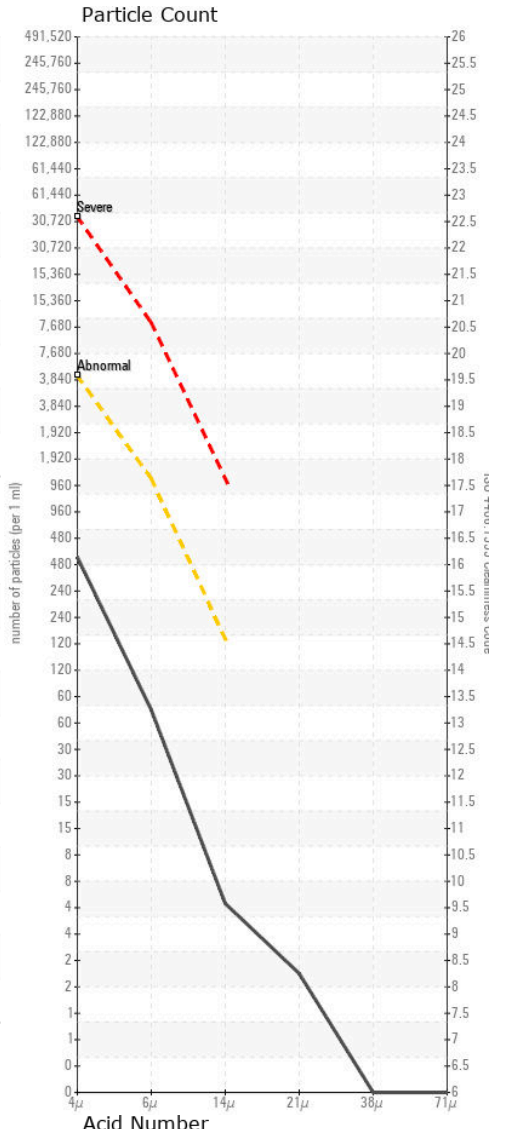
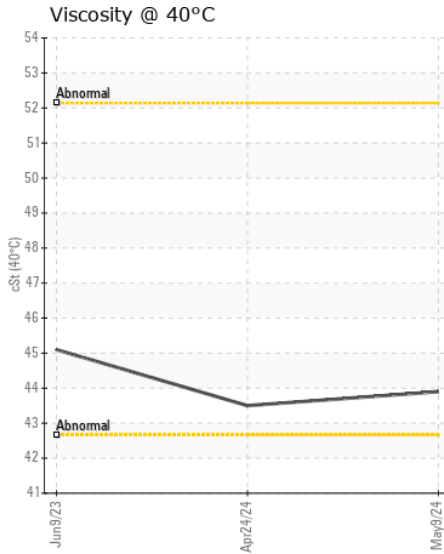
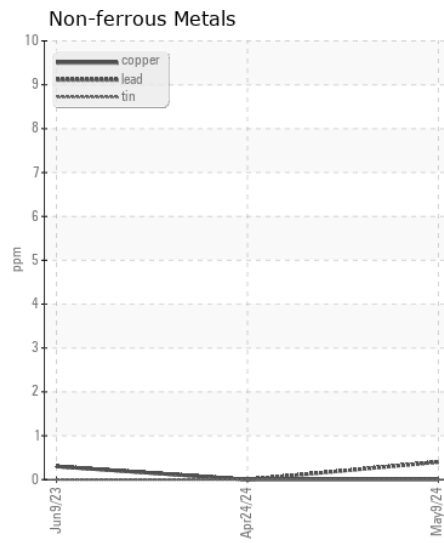
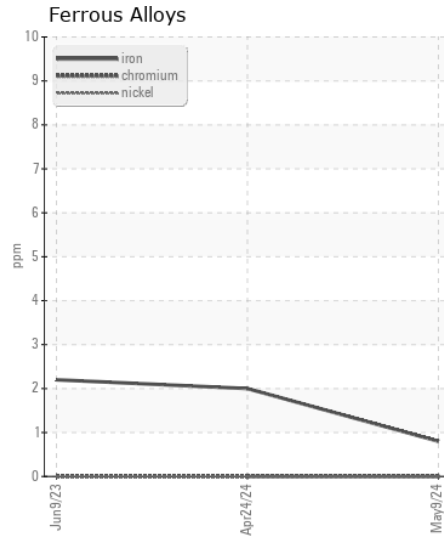
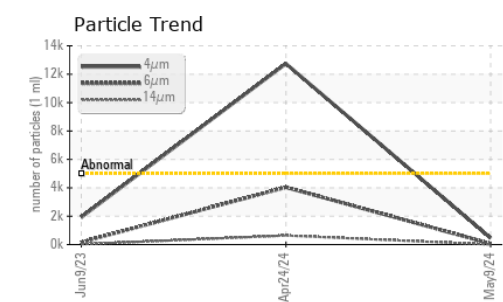
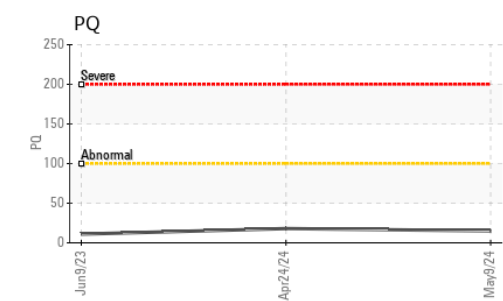
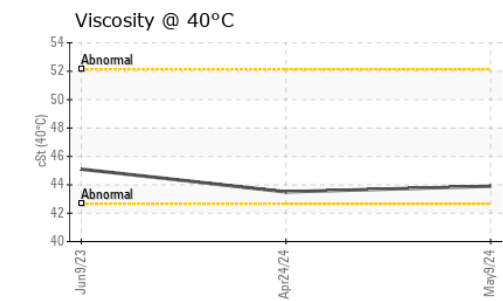
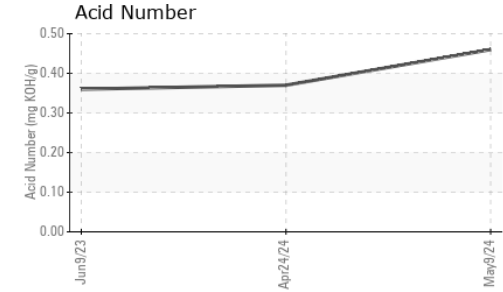
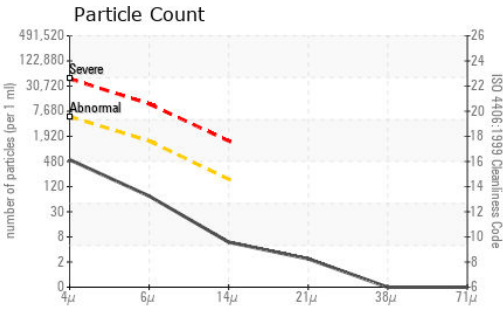
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	466	▲ 12742	1924
Particles >6µm		ASTM D7647	>1300	63	▲ 4036	162
Particles >14µm		ASTM D7647	>160	5	▲ 637	21
Particles >21µm		ASTM D7647	>40	2	▲ 279	6
Particles >38µm		ASTM D7647	>10	0	▲ 39	0
Particles >71µm		ASTM D7647	>3	0	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	▲ 21/19/16	18/15/12
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		<1	<1	0
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		48	49	56
Calcium	ppm	ASTM D5185m		76	25	29
Phosphorus	ppm	ASTM D5185m		360	310	278
Zinc	ppm	ASTM D5185m		431	378	359
Sulfur	ppm	ASTM D5185m		1504	1454	1313
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.37	0.36
Visc @ 40°C	cSt	ASTM D445		43.9	43.5	45.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050014 **Received** : 10 May 2024
Lab Number : 06176047 **Tested** : 14 May 2024
Unique Number : 11022100 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)