



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
015-0064 (S/N 236017)

Component
Hydraulic System

Fluid
SCHAEFFER 315 SIMPLEX SUPREME (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Hydraulic fluid sample)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0868281	WC0815095	WC0814958
Sample Date		Client Info		10 Jun 2024	02 Oct 2023	18 Jul 2023
Machine Age	hrs	Client Info		10189	9217	8857
Oil Age	hrs	Client Info		2205	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	4	4
Chromium	ppm	ASTM D5185m	>10	1	1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		2	2	1
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	6	6	5
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

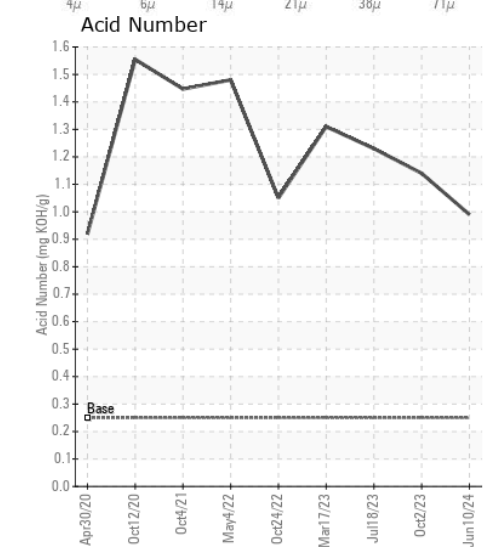
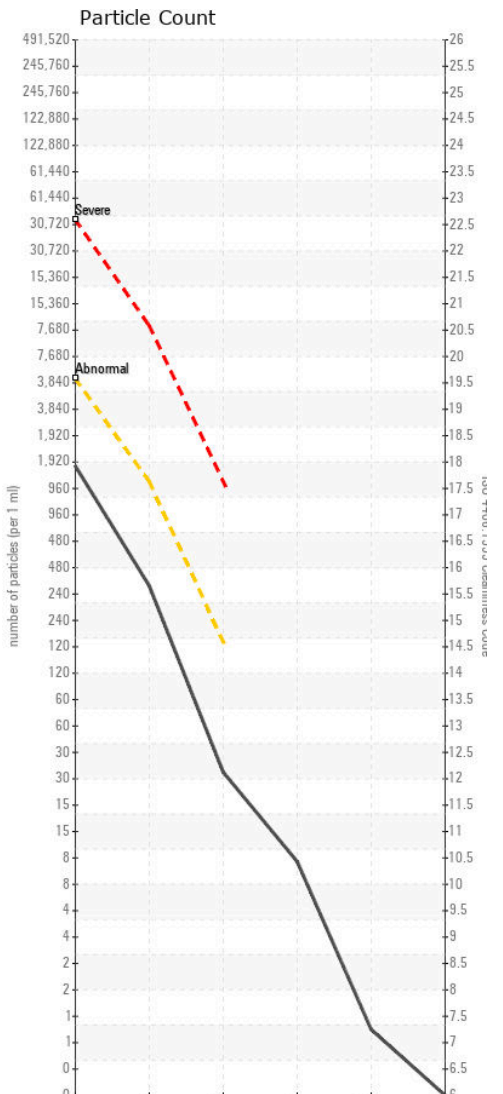
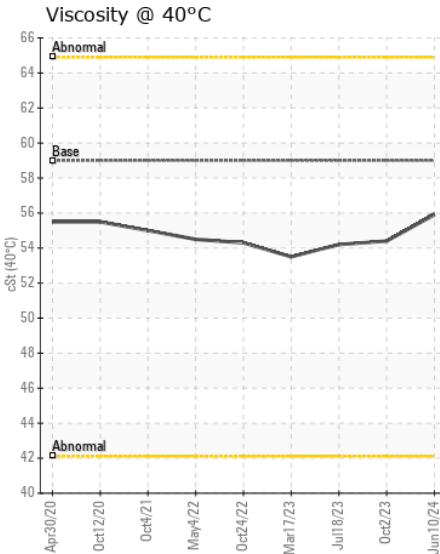
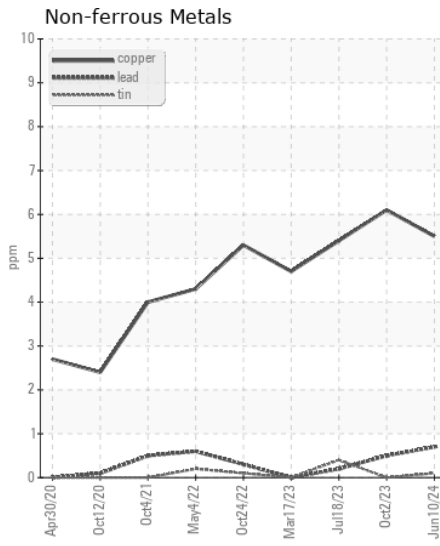
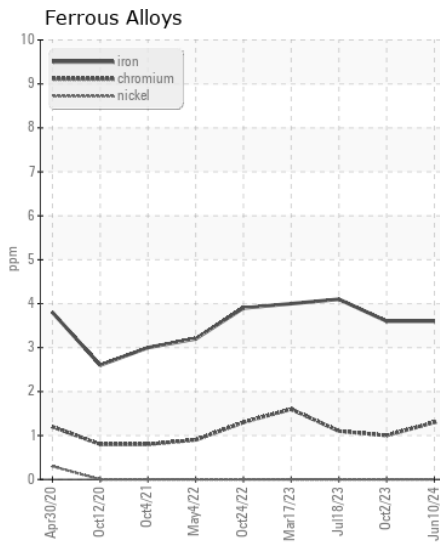
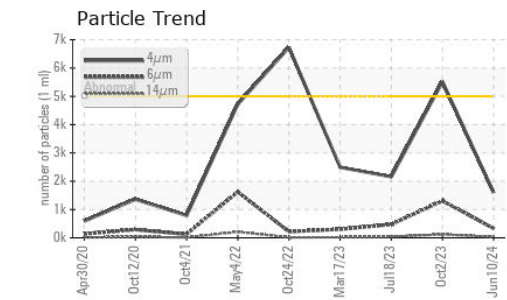
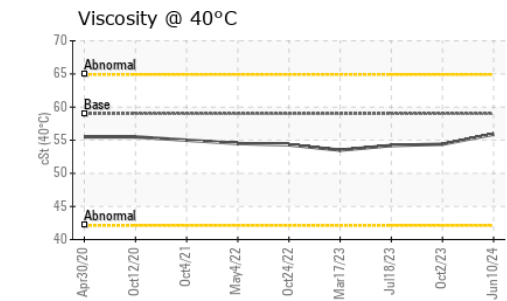
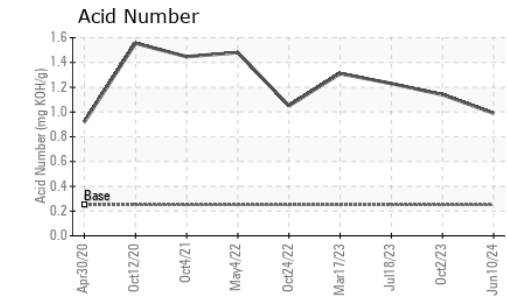
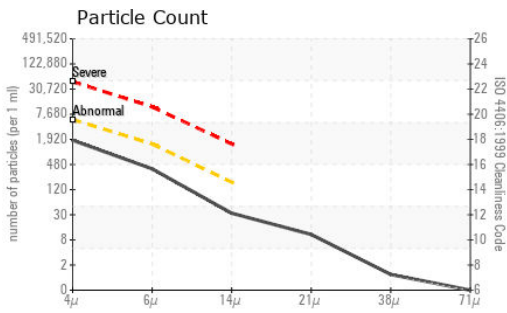
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	9	8	9
Potassium	ppm	ASTM D5185m	>20	1	3	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1595	5516	2155
Particles >6µm		ASTM D7647	>1300	332	1307	474
Particles >14µm		ASTM D7647	>160	29	121	39
Particles >21µm		ASTM D7647	>40	9	33	12
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	20/18/14	18/16/12
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
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		2	0	3
Boron	ppm	ASTM D5185m	100	71	64	66
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m	0	8	8	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	19	16	13
Calcium	ppm	ASTM D5185m	4300	3313	2999	3222
Phosphorus	ppm	ASTM D5185m	1400	1160	1072	1135
Zinc	ppm	ASTM D5185m	1700	1396	1249	1348
Sulfur	ppm	ASTM D5185m	3800	5027	4220	5036
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.99	1.14	1.23
Visc @ 40°C	cSt	ASTM D445	59	55.9	54.4	54.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0868281 **Received** : 14 Jun 2024
Lab Number : 06210029 **Tested** : 17 Jun 2024
Unique Number : 11082893 **Diagnosed** : 17 Jun 2024 - Angela Borella
Test Package : CONST

SHIMMICK CONSTRUCTION
 5535 TRAILHEAD DRIVE
 CHATTANOOGA, TN
 US 37415
 Contact: DANIEL LISELLA
 daniel.lisella@shimmick.com

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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