



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Hydraulic Oil
 Machine Id
HYD - 040116
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06197628	WC04344612	WC04341482
Sample Date		Client Info		03 Jun 2024	08 Nov 2017	06 Nov 2017
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		18	17	16
Iron	ppm	ASTM D5185m	>20	19	3	3
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	12	13	14
Tin	ppm	ASTM D5185m	>20	0	0	<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

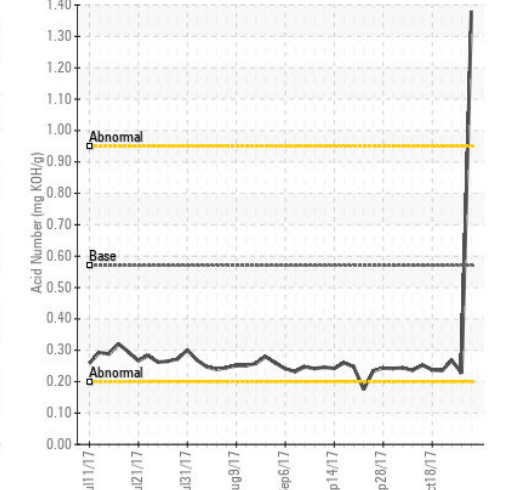
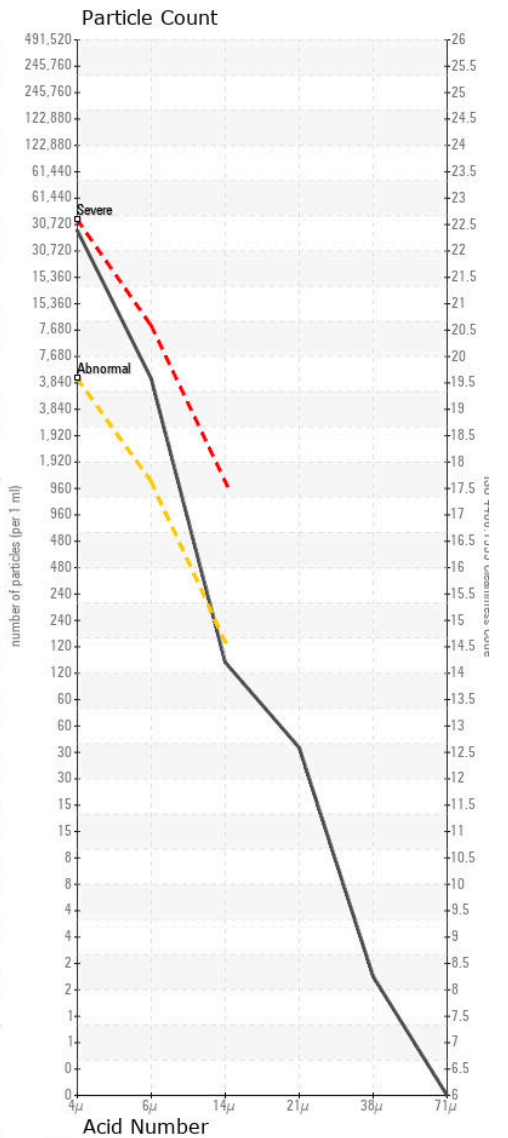
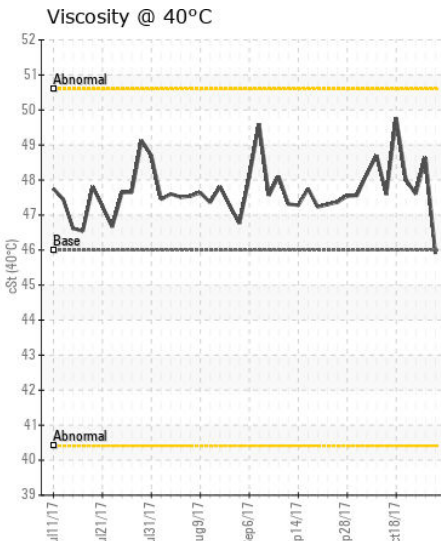
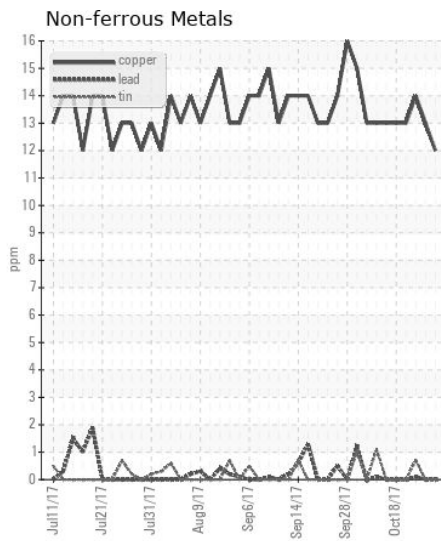
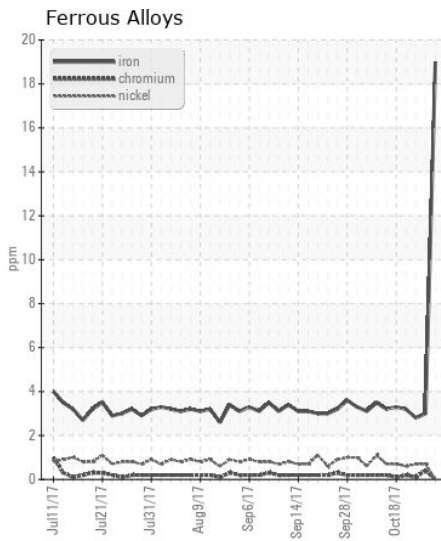
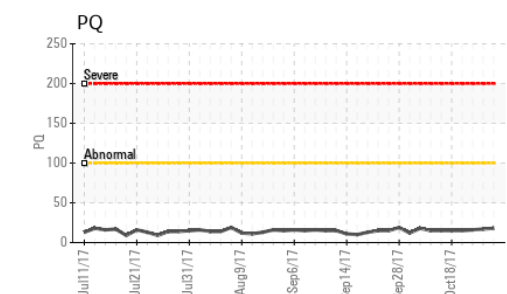
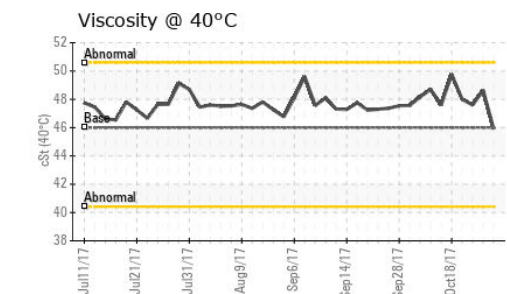
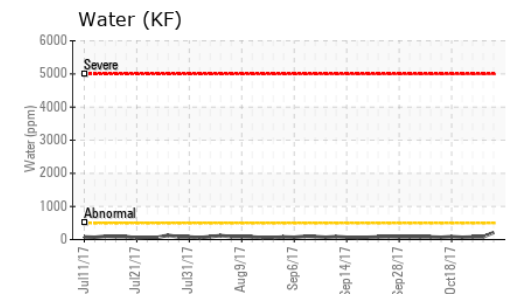
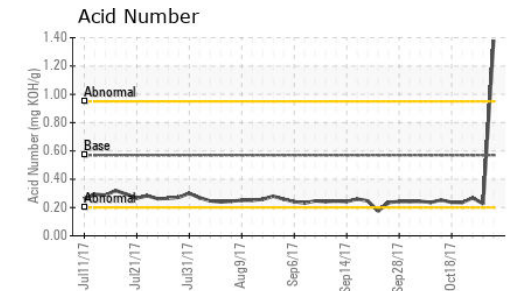
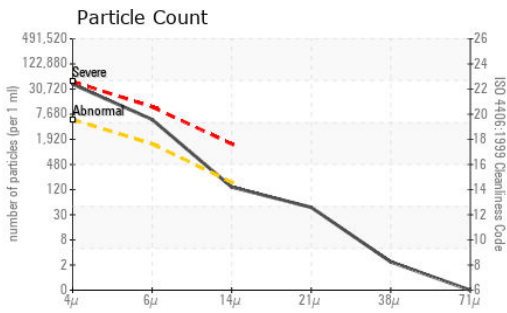
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>15	12	15	12
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
Water	%	ASTM D6304	>0.05	0.021	0.008	0.008
ppm Water	ppm	ASTM D6304	>500	213	80	80
Particles >4µm		ASTM D7647	>5000	34781	274	244
Particles >6µm		ASTM D7647	>1300	4989	66	50
Particles >14µm		ASTM D7647	>160	122	9	10
Particles >21µm		ASTM D7647	>40	40	3	4
Particles >38µm		ASTM D7647	>10	2	0	2
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/19/14	15/13/10	15/13/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.05	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		10	<1	<1
Boron	ppm	ASTM D5185m	5	0	<1	2
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	82	17	14
Calcium	ppm	ASTM D5185m	200	3164	71	61
Phosphorus	ppm	ASTM D5185m	300	993	213	236
Zinc	ppm	ASTM D5185m	370	1104	245	225
Sulfur	ppm	ASTM D5185m	2500	3685	1931	2050
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.38	0.227	0.268
Visc @ 40°C	cSt	ASTM D445	46	45.9	48.64	47.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC06197628
 Lab Number : 06197628
 Unique Number : 11059751
 Test Package : PLANT

Received : 03 Jun 2024
 Tested : 13 Jun 2024
 Diagnosed : 17 Jun 2024 - Sean Felton

WEARCHECK LUBRICATION SERVICES QA ACCOUNT
 501 Madison Ave
 Cary, NC
 US 27513
 Contact: WCLS CARY NC

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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