



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

Extrusion

Machine Id

Press 3 Press Hydraulic Unit (S/N 84356)

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (3962 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0041892	RP0041887	RP0041866
Sample Date		Client Info		03 Jul 2024	10 Jun 2024	02 May 2024
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				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	9	5	4
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>20	2	0	2
Copper	ppm	ASTM D5185m	>20	17	13	14
Tin	ppm	ASTM D5185m	>20	1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

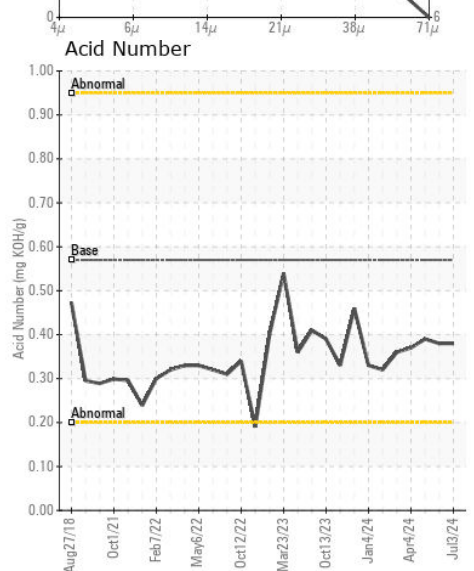
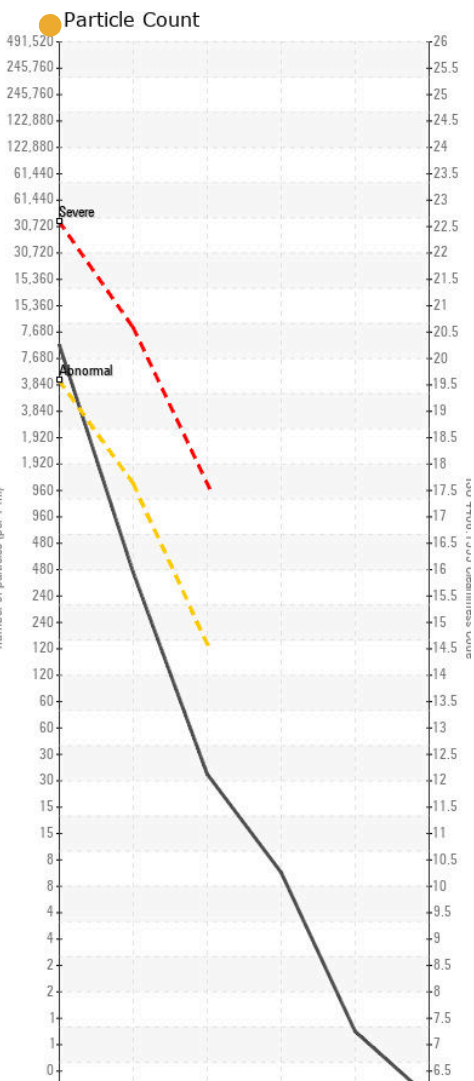
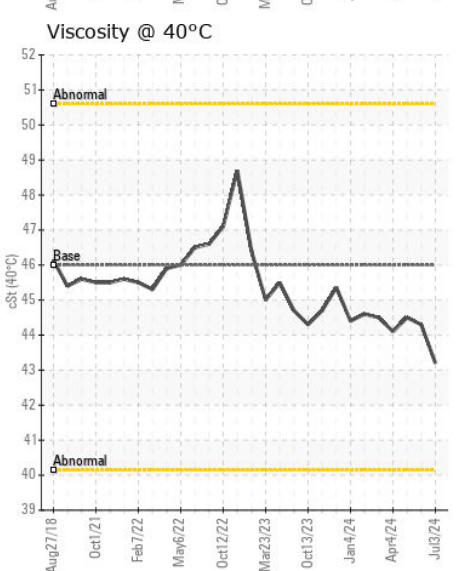
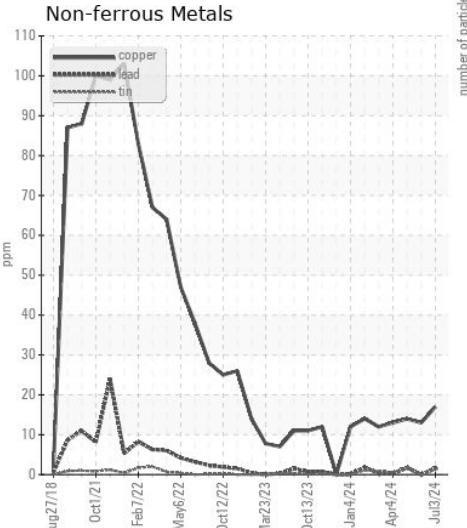
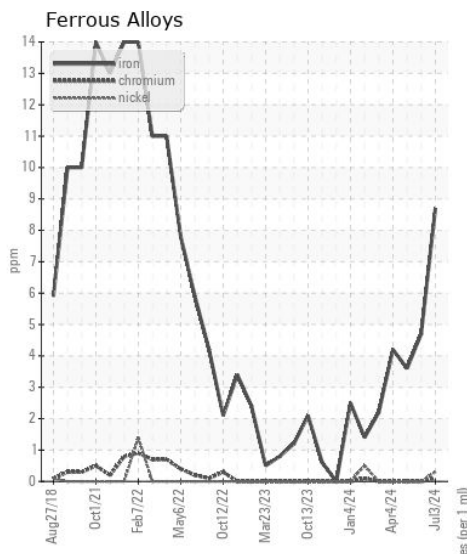
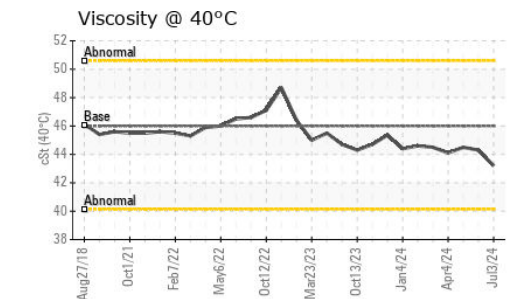
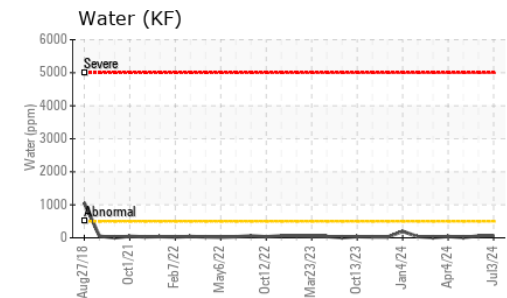
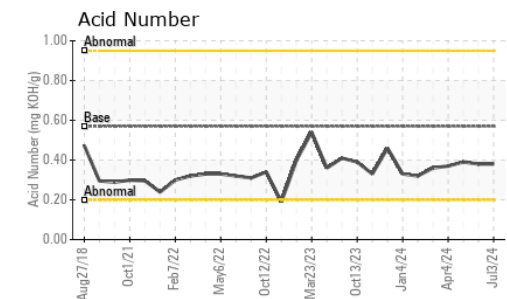
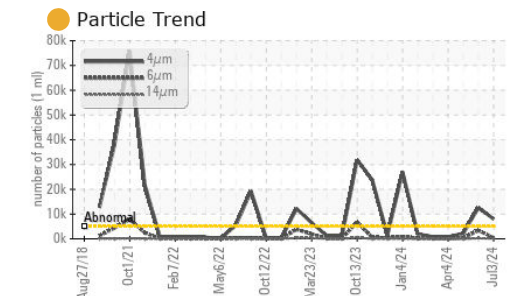
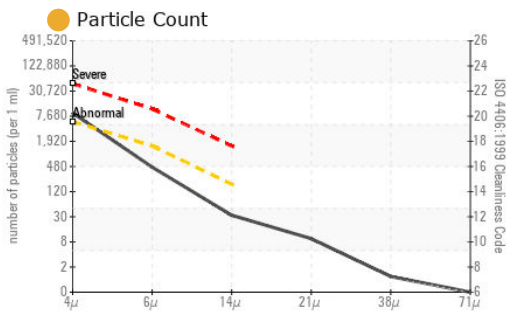
There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185m	>15	3	<1	1
Potassium	ppm	ASTM D5185m	>20	2	0	3
Water	%	ASTM D6304	>0.05	0.006	0.005	0.001
ppm Water	ppm	ASTM D6304	>500	68	56	10
Particles >4µm		ASTM D7647	>5000	7996	12597	2176
Particles >6µm		ASTM D7647	>1300	406	3373	420
Particles >14µm		ASTM D7647	>160	29	241	6
Particles >21µm		ASTM D7647	>40	8	54	0
Particles >38µm		ASTM D7647	>10	1	3	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/12	21/19/15	18/16/10
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	>0.05	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		<1	2	2
Boron	ppm	ASTM D5185m	5	2	<1	2
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	4	4	4
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	7	3	10
Calcium	ppm	ASTM D5185m	200	40	43	54
Phosphorus	ppm	ASTM D5185m	300	301	324	333
Zinc	ppm	ASTM D5185m	370	350	367	386
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.38	0.38	0.39
Visc @ 40°C	cSt	ASTM D445	46	43.2	44.3	44.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0041892
Lab Number : 06231488
Unique Number : 11114981
Test Package : IND 2

WESTERN EXTRUSIONS CORPORATION
 1735 SANDY LAKE RD
 CARROLLTON, TX
 US 75006
 Contact: WESTERN EXTRUSIONS
 SHAYLEY@WESTERNEXTRUSIONS.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)