



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

Kerr
Machine Id

KERz - New Oil - Conoco AW Hydraulic Oil ISO 46

Component

New (Unused) Oil

Fluid

CONOCO HYDRAULIC AW ISO 46 (55 GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0897718	WC0483402	WC12306314
Sample Date		Client Info		14 May 2024	11 May 2022	28 Jun 2018
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Filter Age	yrs	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	ATTENTION	ABNORMAL

WEAR

Iron	ppm	ASTM D5185m	>5	0	0	▲ 28
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>5	0	0	0
Lead	ppm	ASTM D5185m	>5	0	0	6
Copper	ppm	ASTM D5185m	>5	0	0	<1
Tin	ppm	ASTM D5185m	>5	<1	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

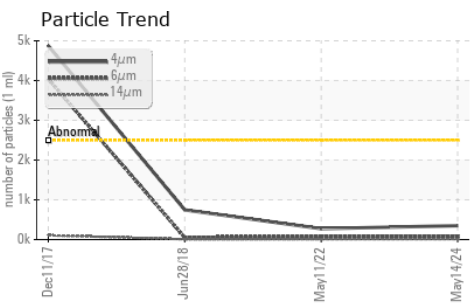
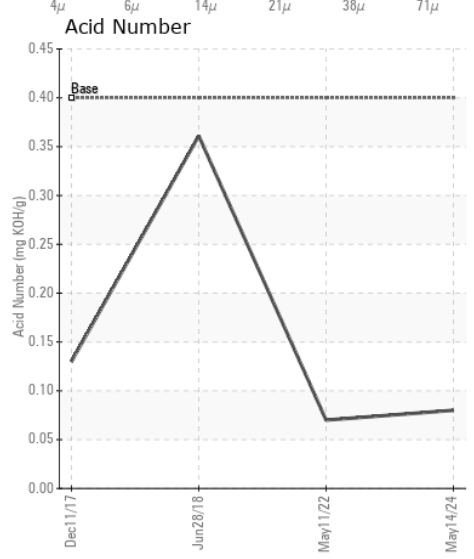
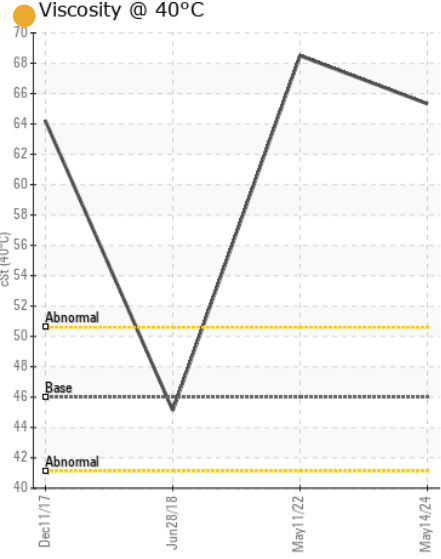
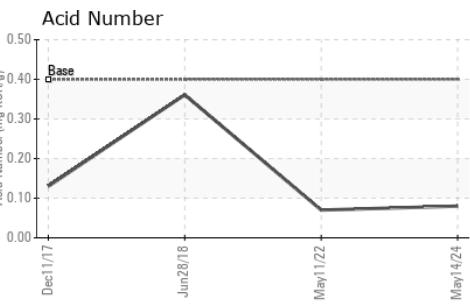
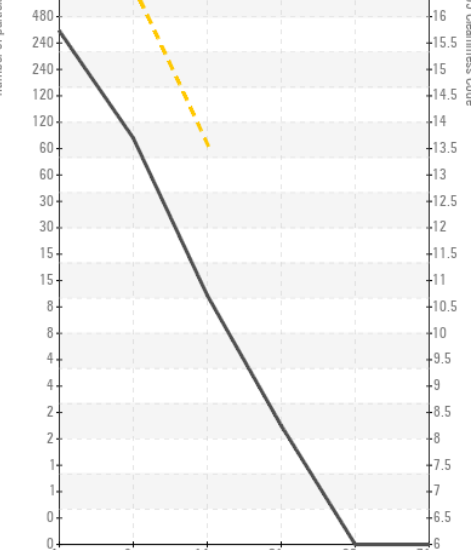
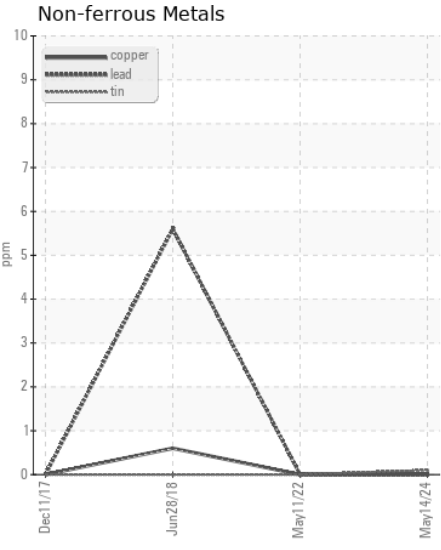
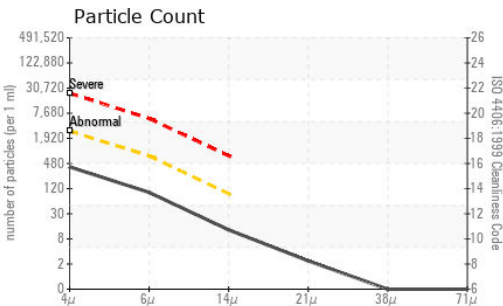
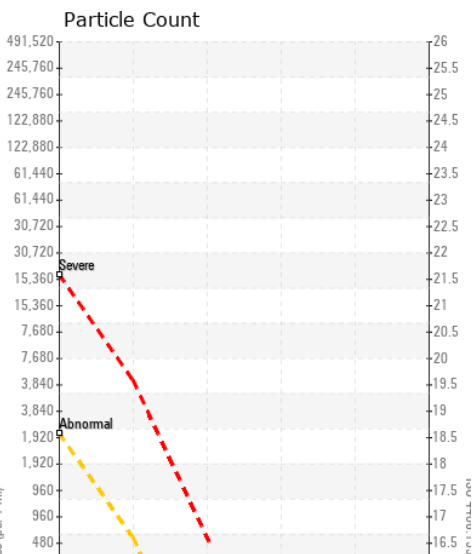
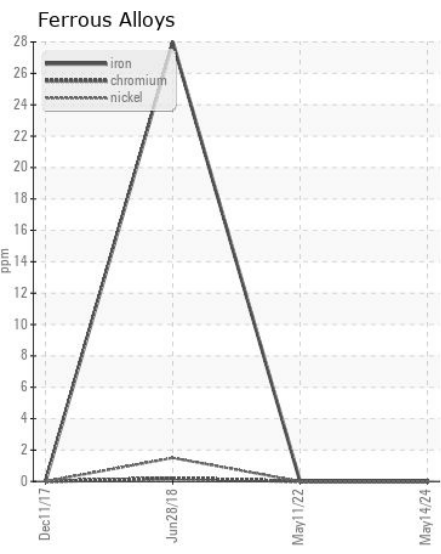
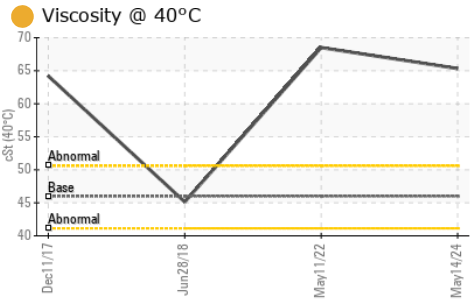
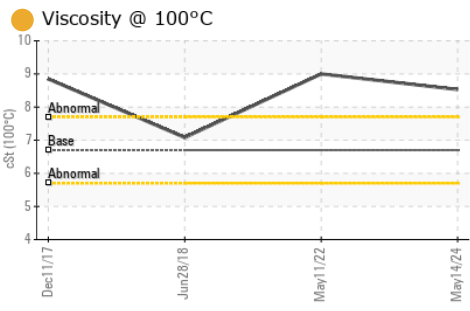
CONTAMINATION

Silicon	ppm	ASTM D5185m	>15	1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>2500	350	274	747
Particles >6µm		ASTM D7647	>640	86	79	53
Particles >14µm		ASTM D7647	>80	11	10	7
Particles >21µm		ASTM D7647	>20	2	2	4
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/11	15/13/10	17/13/10
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		NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

Sodium	ppm	ASTM D5185m		0	0	1
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	● 0	6
Phosphorus	ppm	ASTM D5185m		0	● 23	13
Zinc	ppm	ASTM D5185m	3100	0	● 0	10
Sulfur	ppm	ASTM D5185m		1611	● 692	1404
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.08	● 0.07	0.361
Visc @ 40°C	cSt	ASTM D445	46	● 65.33	● 68.5	45.13
Visc @ 100°C	cSt	ASTM D445	6.7	● 8.53	● 9	7.08
Viscosity Index (VI)	Scale	ASTM D2270	96	100	105	115



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0897718 **Received** : 22 May 2024
Lab Number : 06188156 **Tested** : 28 May 2024
Unique Number : 11044908 **Diagnosed** : 28 May 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: FT-IR, KV100, VI)

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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)