



OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
2519

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 22 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RW0005082	---	---
Sample Date	Client Info	25 Nov 2023	---	---
Machine Age	hrs Client Info	2755	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	2	---	---
Chromium ppm	ASTM D5185m >10	<1	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >10	2	---	---
Lead ppm	ASTM D5185m >10	0	---	---
Copper ppm	ASTM D5185m >75	1	---	---
Tin ppm	ASTM D5185m >10	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 5	0	---	---
Barium ppm	ASTM D5185m 5	0	---	---
Molybdenum ppm	ASTM D5185m 5	0	---	---
Manganese ppm	ASTM D5185m	0	---	---
Magnesium ppm	ASTM D5185m 25	<1	---	---
Calcium ppm	ASTM D5185m 200	47	---	---
Phosphorus ppm	ASTM D5185m 300	341	---	---
Zinc ppm	ASTM D5185m 370	417	---	---
Sulfur ppm	ASTM D5185m 2500	972	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	<1	---	---
Sodium ppm	ASTM D5185m	0	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 7626	---	---
Particles >6µm	ASTM D7647 >1300	443	---	---
Particles >14µm	ASTM D7647 >160	18	---	---
Particles >21µm	ASTM D7647 >40	5	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/16/11	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.57	0.32	---	---

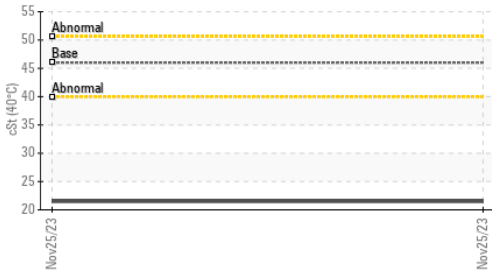


OIL ANALYSIS REPORT

▲ Particle Trend



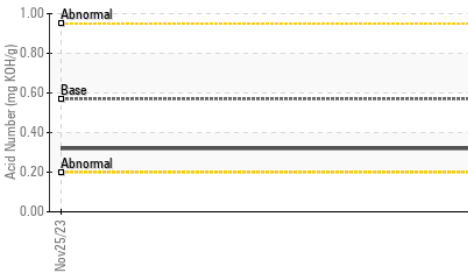
▲ Viscosity @ 40°C



▲ Particle Trend



Acid Number



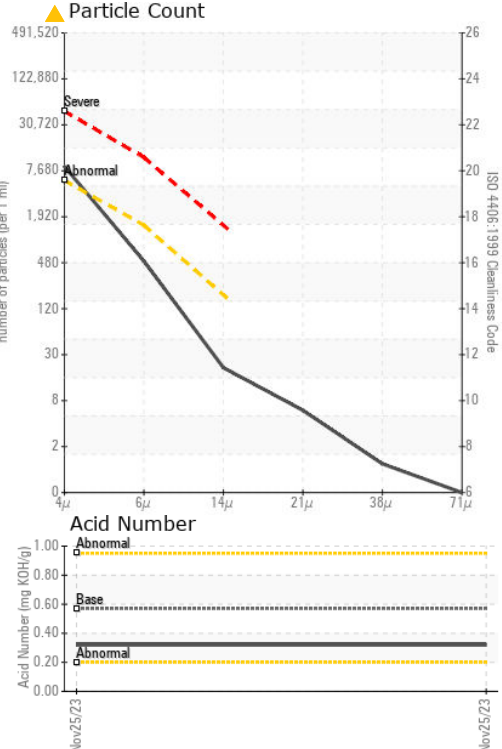
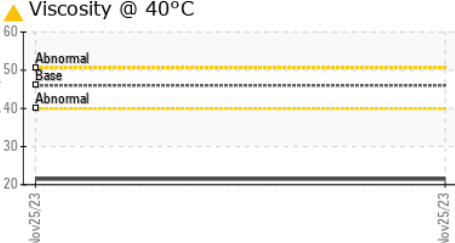
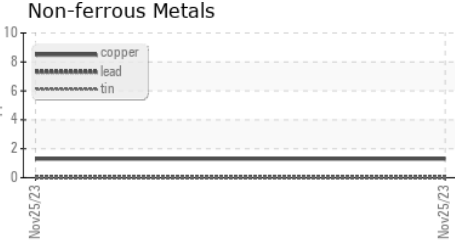
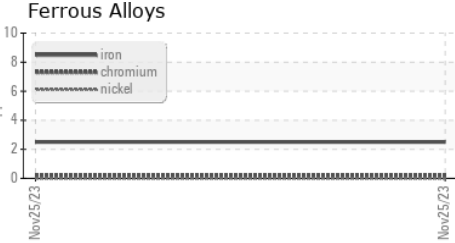
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	▲ 21.49	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0005082 **Received** : 24 Nov 2023
Lab Number : 06016333 **Diagnosed** : 01 Dec 2023
Unique Number : 10755477 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

NEWKIRK ELECTRIC
 1875 ROBERTS ST.
 MUSKEGON, MI
 US 49442
 Contact: ERIC KING
 ewking@newkirk-electric.com
 T: (231)206-6131
 F: (231)724-4090

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)