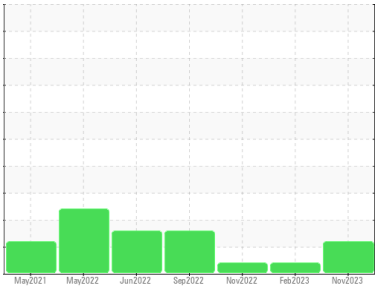
PROBLEM SUMMARY

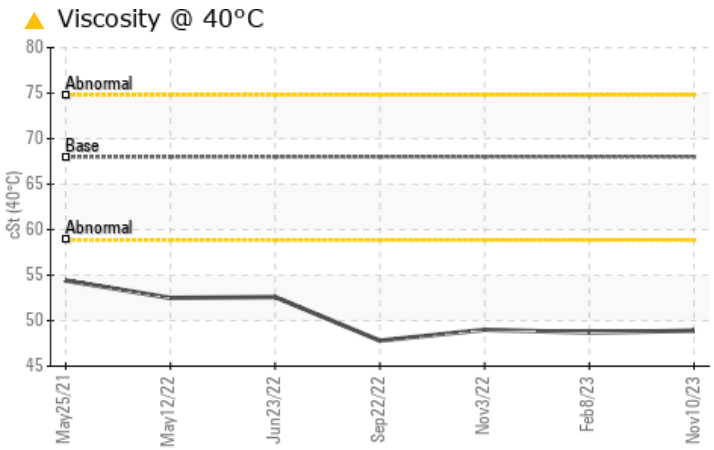
Area
COLD MILL/CM-3STD-2N
Machine Id
Prep Station HPU 3ST2 Prep Station HPU
Component
Hydraulic Power Pack
Fluid
QUAKER CHEMICAL QUINTOLUBRIC 888-68 (200 GAL)

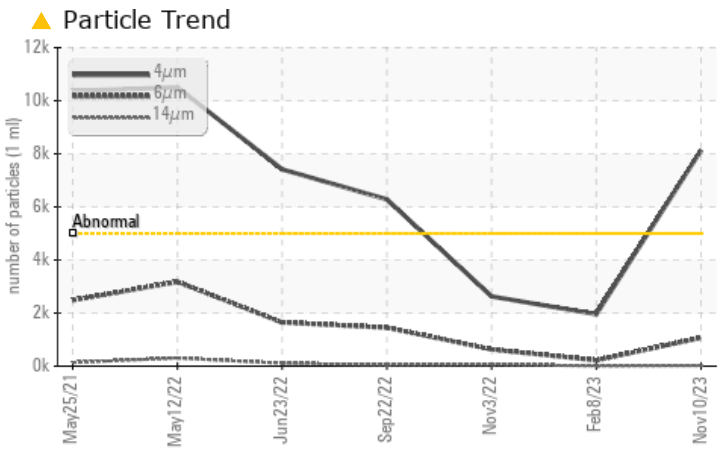
Sample Rating Trend



VISCOSITY

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	ATTENTION	ATTENTION
Particles >4µm		ASTM D7647	>5000	▲ **8134**	1957	2627
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/17/12**	18/15/10	19/16/13
Visc @ 40°C	cSt	ASTM D445	68	▲ **48.9**	▲ 48.7	▲ 49.0

Customer Id: CONMUSAL
Sample No.: KFS0004869
Lab Number: 06007645
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 Feb 2023 Diag: Jonathan Hester

VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

view report

03 Nov 2022 Diag: Don Baldridge

VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

22 Sep 2022 Diag: Don Baldridge

VISCOSITY

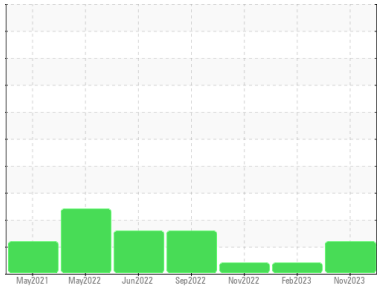
Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

KIMBRO FLUID SOLUTIONS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
COLD MILL/CM-3STD-2N
Machine Id
Prep Station HPU 3ST2 Prep Station HPU
Component
Hydraulic Power Pack
Fluid
QUAKER CHEMICAL QUINTOLUBRIC 888-68 (200 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 < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is lower than normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**KFS0004869**	KFS0002533	KFS0001925
Sample Date	Client Info		**10 Nov 2023**	08 Feb 2023	03 Nov 2022
Machine Age	Client Info		**0**	0	0
Oil Age	Client Info		**0**	0	0
Oil Changed	Client Info		**N/A**	N/A	N/A
Sample Status			**ATTENTION**	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	2	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>20	**286**	283	301
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	<1
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m	0	**0**	<1	0
Magnesium	ppm	ASTM D5185m	0	**<1**	0	0
Calcium	ppm	ASTM D5185m	10	**0**	3	1
Phosphorus	ppm	ASTM D5185m	200	**107**	98	112
Zinc	ppm	ASTM D5185m	125	**9**	10	0
Sulfur	ppm	ASTM D5185m	1000	**583**	660	412

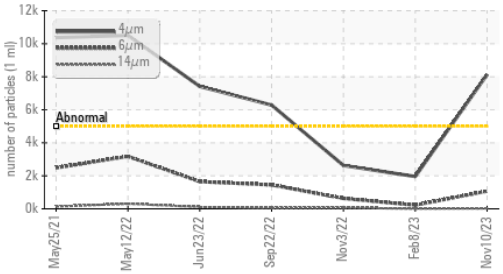
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	2	1
Sodium	ppm	ASTM D5185m		**1**	2	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ **8134**	1957	2627
Particles >6µm	ASTM D7647	>1300	**1070**	220	629
Particles >14µm	ASTM D7647	>160	**22**	9	62
Particles >21µm	ASTM D7647	>40	**4**	2	18
Particles >38µm	ASTM D7647	>10	**1**	0	1
Particles >71µm	ASTM D7647	>3	**1**	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ **20/17/12**	18/15/10	19/16/13

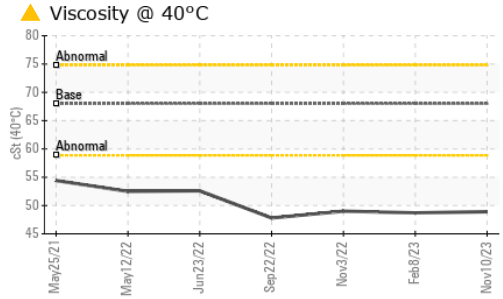
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	**2.00**	1.84	2.01

OIL ANALYSIS REPORT

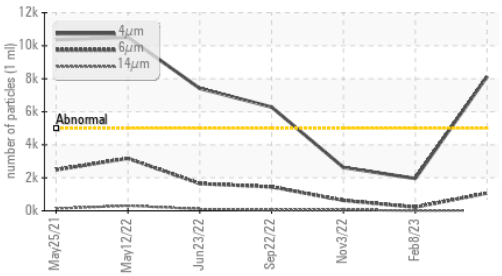
Particle Trend



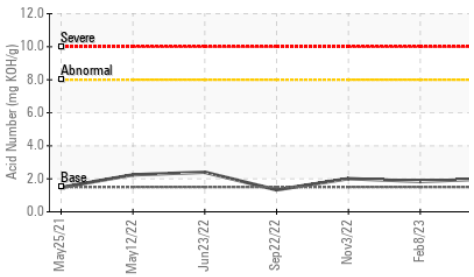
Viscosity @ 40°C



Particle Trend



Acid Number



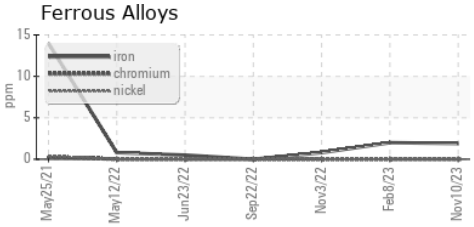
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	▲ **48.9**	▲ 48.7	▲ 49.0

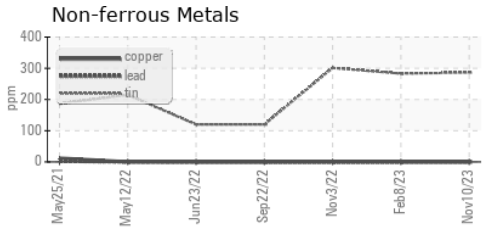
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

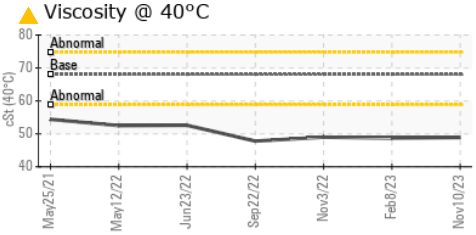
Ferrous Alloys



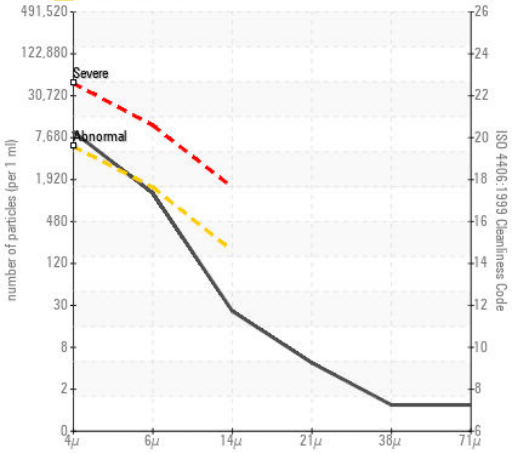
Non-ferrous Metals



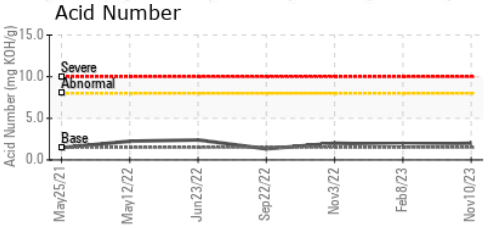
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004869 **Received** : 14 Nov 2023
Lab Number : 06007645 **Diagnosed** : 16 Nov 2023
Unique Number : 10741407 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF)

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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