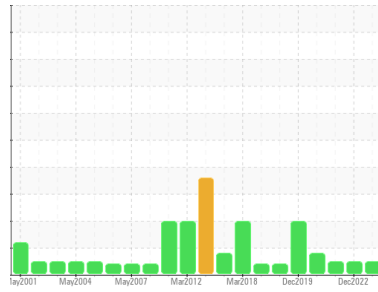




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NISSEI PRESS 14 (S/N S18T030)

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (185 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0884787	WC0768436	WC0631181
Sample Date	Client Info	27 Dec 2023	21 Dec 2022	21 Mar 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	8	5	3
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >20	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	<1	<1
Lead	ppm	ASTM D5185m >20	2	0	<1
Copper	ppm	ASTM D5185m >20	13	11	12
Tin	ppm	ASTM D5185m >20	1	0	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 5	0	0	0
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 5	<1	0	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 25	<1	0	0
Calcium	ppm	ASTM D5185m 200	15	12	4
Phosphorus	ppm	ASTM D5185m 300	154	156	159
Zinc	ppm	ASTM D5185m 370	28	41	29
Sulfur	ppm	ASTM D5185m 2500	877	1039	740

CONTAMINANTS

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

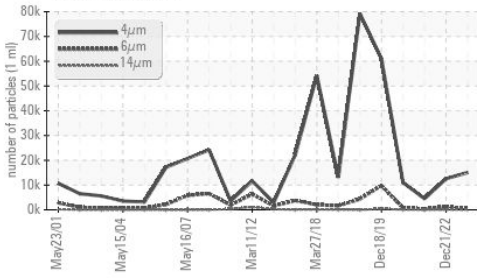
FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	15063	12569	4481
Particles >6µm		ASTM D7647 >1300	501	1279	338
Particles >14µm		ASTM D7647 >160	66	85	40
Particles >21µm		ASTM D7647 >40	21	18	7
Particles >38µm		ASTM D7647 >10	1	1	0
Particles >71µm		ASTM D7647 >3	0	0	0
Oil Cleanliness		ISO 4406 (c) >--/17/14	21/16/13	21/17/14	19/16/12

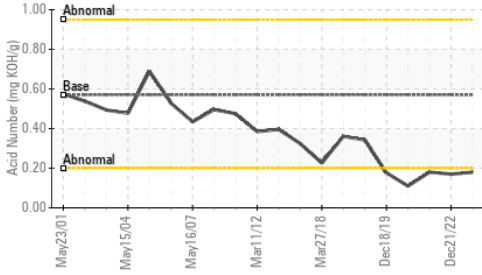


OIL ANALYSIS REPORT

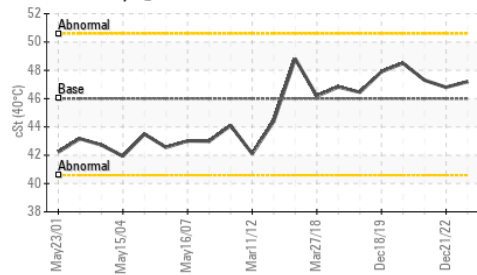
Particle Trend



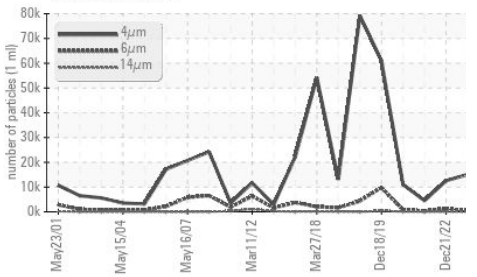
Acid Number



Viscosity @ 40°C



Particle Trend

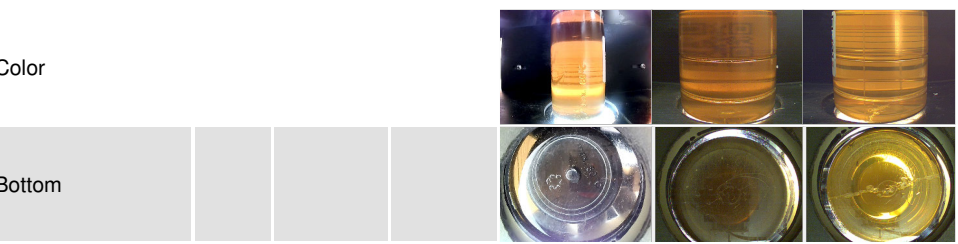


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.18	0.17	0.18

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	LIGHT	LIGHT	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

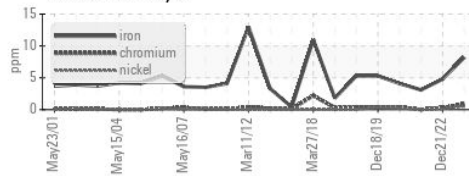
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.2	46.8	47.3

SAMPLE IMAGES

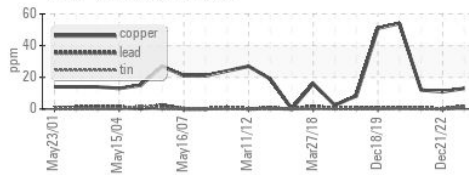


GRAPHS

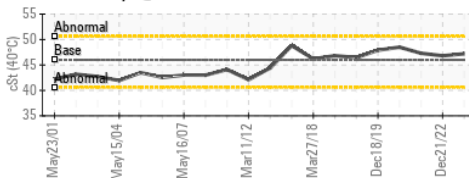
Ferrous Alloys



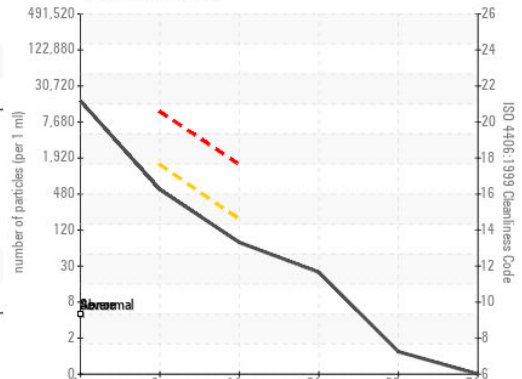
Non-ferrous Metals



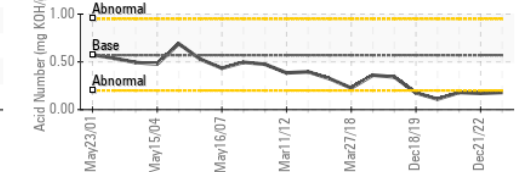
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0884787

Lab Number : 06139870

Unique Number : 10964678

Test Package : IND 2

Received : 05 Apr 2024

Tested : 11 Apr 2024

Diagnosed : 11 Apr 2024 - Don Baldrige

VIKING PLASTICS

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CORRY, PA

US 16407

Contact: JOHN TRIKUR

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T: (814)664-8671

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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)