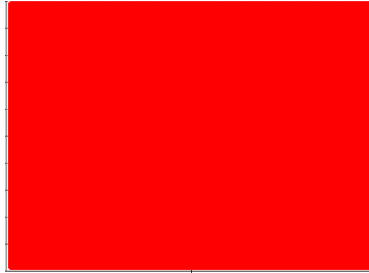




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
C0042
Component
Hoisting Gearbox
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Bearing and/or gear wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		DC0030957	---	---
Sample Date	Client Info		25 Sep 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	904	---	---
Chromium	ppm	ASTM D5185m >10	1	---	---
Nickel	ppm	ASTM D5185m >10	4	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m	4	---	---
Lead	ppm	ASTM D5185m	394	---	---
Copper	ppm	ASTM D5185m	5867	---	---
Tin	ppm	ASTM D5185m	<1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	18	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	<1	---	---
Manganese	ppm	ASTM D5185m	26	---	---
Magnesium	ppm	ASTM D5185m	662	---	---
Calcium	ppm	ASTM D5185m	50	---	---
Phosphorus	ppm	ASTM D5185m	617	---	---
Zinc	ppm	ASTM D5185m	5342	---	---
Sulfur	ppm	ASTM D5185m	3629	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	203	---	---
Sodium	ppm	ASTM D5185m	23	---	---
Potassium	ppm	ASTM D5185m >20	51	---	---

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	HEAVY	---	---
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 >0.2	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

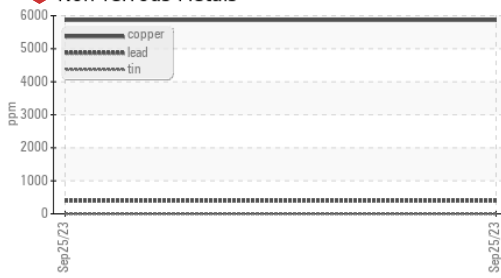
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	301	---	---



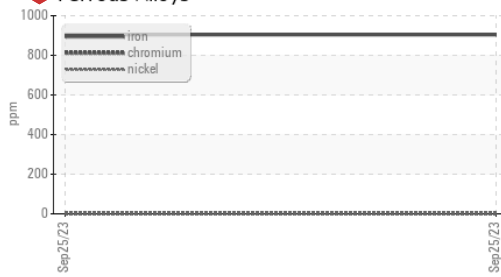
OIL ANALYSIS REPORT

Non-ferrous Metals



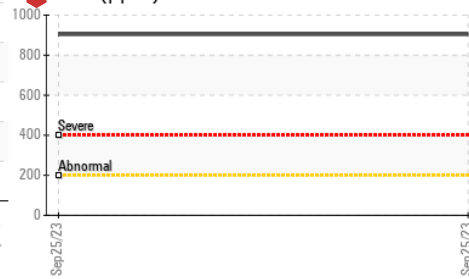
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

Ferrous Alloys

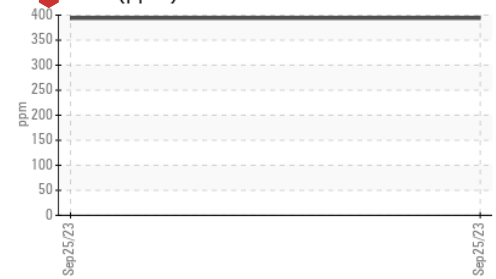


GRAPHS

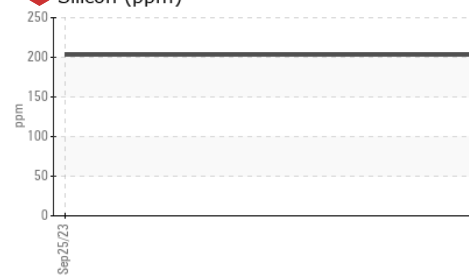
Iron (ppm)



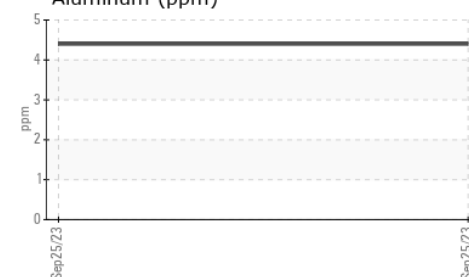
Lead (ppm)



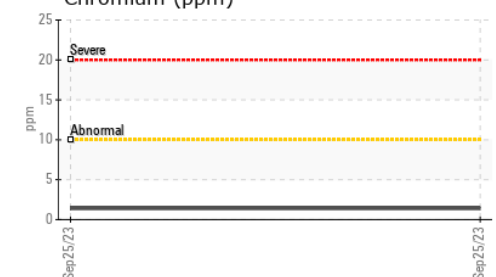
Silicon (ppm)



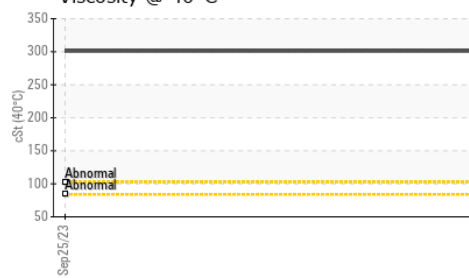
Aluminum (ppm)



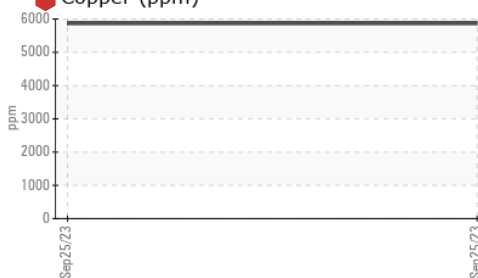
Chromium (ppm)



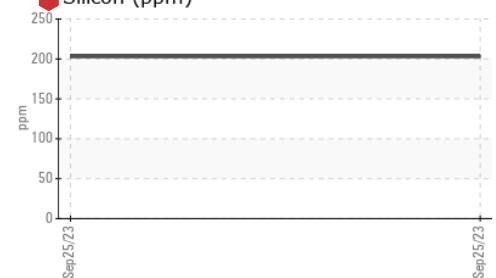
Viscosity @ 40°C



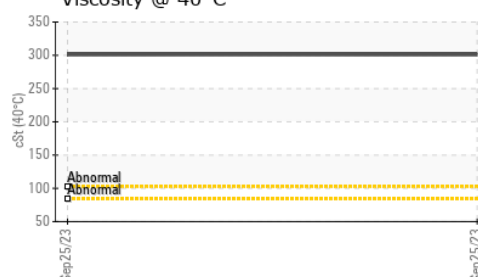
Copper (ppm)



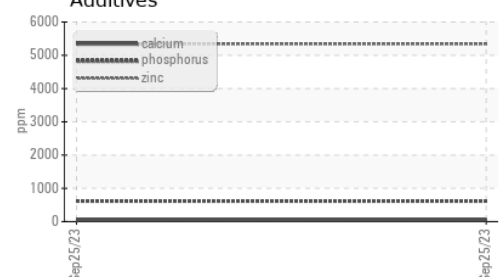
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0030957 **Received** : 03 Oct 2023
Lab Number : 05968483 **Diagnosed** : 04 Oct 2023
Unique Number : 10675034 **Diagnostician** : Doug Bogart
Test Package : MOB 1

CRANWORKS INC - MID-ATLANTIC
 11089 LEADBETTER ROAD
 ASHLAND, VA
 US 23005
 Contact: JASON WILDE
 jcwilde@vacranetworks.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)

T:
F: