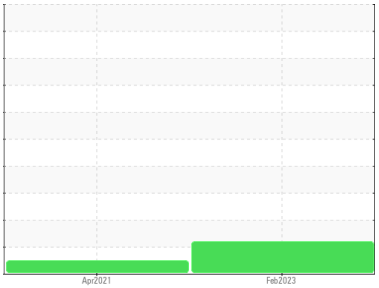
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
CURING
Machine Id
[CURING] LINE 1 HYDRAULIC CURING PRESS
Component
Hydraulic System
Fluid
NOT GIVEN (500 LTR)

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 high amount of silt (particulates < 14 microns in size) present 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		**WC0755641**	WC0551658	---
Sample Date	Client Info		**05 Feb 2023**	15 Apr 2021	---
Machine Age	Client Info		**0**	0	---
Oil Age	Client Info		**0**	0	---
Oil Changed	Client Info		**N/A**	N/A	---
Sample Status			**ABNORMAL**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**4**	<1	---
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	---
Nickel	ppm	ASTM D5185m	>20	**0**	<1	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	<1	---
Aluminum	ppm	ASTM D5185m	>20	**0**	0	---
Lead	ppm	ASTM D5185m	>20	**0**	<1	---
Copper	ppm	ASTM D5185m	>20	**3**	3	---
Tin	ppm	ASTM D5185m	>20	**0**	<1	---
Antimony	ppm	ASTM D5185m		**---**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m		**0**	<1	---
Calcium	ppm	ASTM D5185m		**104**	117	---
Phosphorus	ppm	ASTM D5185m		**424**	480	---
Zinc	ppm	ASTM D5185m		**36**	46	---
Sulfur	ppm	ASTM D5185m		**2140**	1630	---

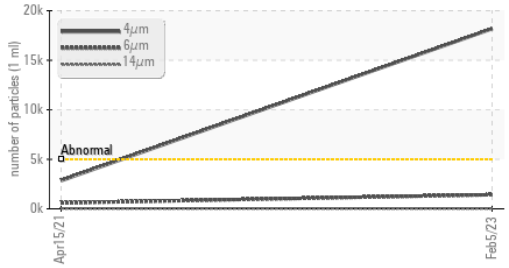
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	0	---
Sodium	ppm	ASTM D5185m		**2**	1	---
Potassium	ppm	ASTM D5185m	>20	**0**	<1	---
Water	%	ASTM D6304	>0.05	**NEG**	NEG	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ **18184**	2841	---
Particles >6µm	ASTM D7647	>1300	▲ **1425**	594	---
Particles >14µm	ASTM D7647	>160	**28**	27	---
Particles >21µm	ASTM D7647	>40	**7**	6	---
Particles >38µm	ASTM D7647	>10	**1**	0	---
Particles >71µm	ASTM D7647	>3	**0**	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ **21/18/12**	19/16/12	---

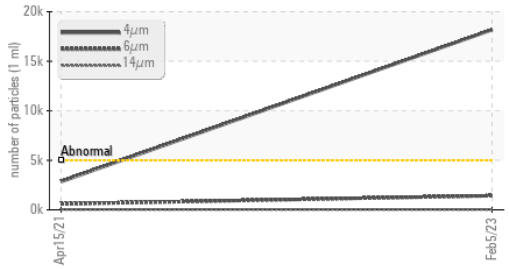
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.124**	0.194	---

OIL ANALYSIS REPORT

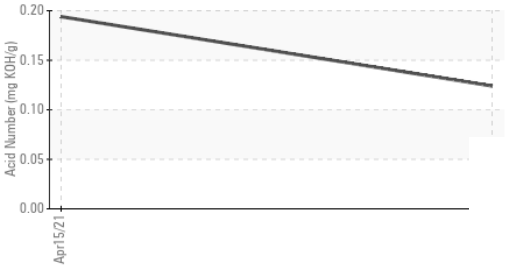
Particle Trend



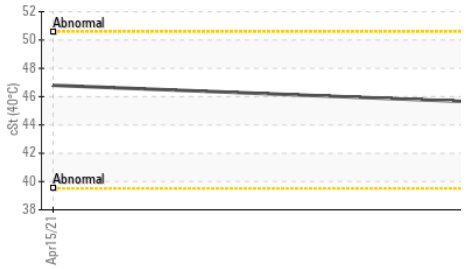
Particle Trend



Acid Number

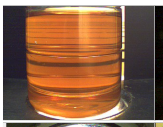
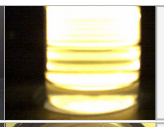
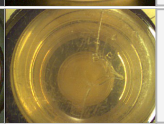


Viscosity @ 40°C



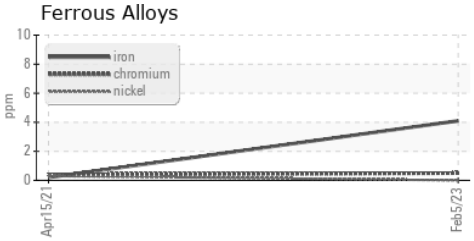
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**45.6**	46.8	---

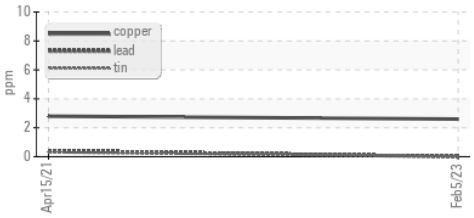
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

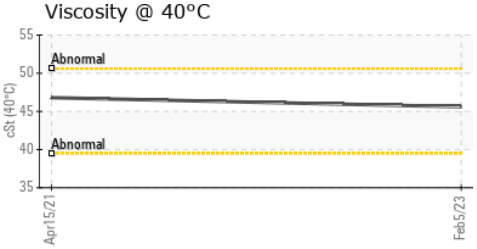
Ferrous Alloys



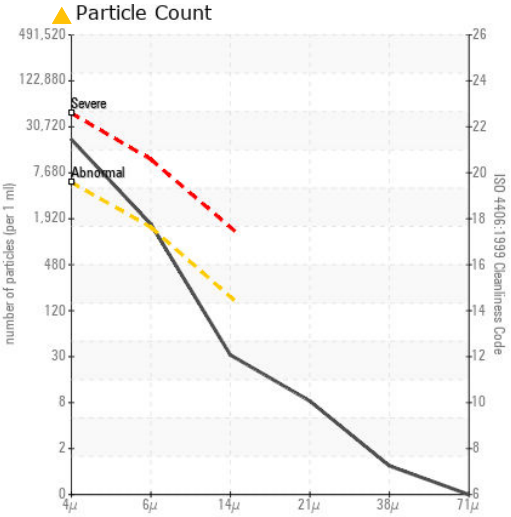
Non-ferrous Metals



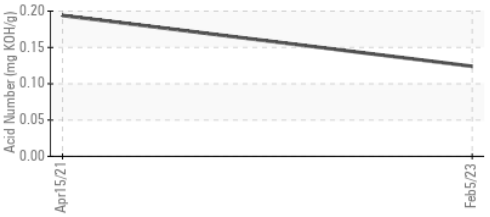
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0755641 **Recieved** : 06 Feb 2023
Lab Number : 05759400 **Diagnosed** : 07 Feb 2023
Unique Number : 10324007 **Diagnostician** : Jonathan Hester
Test Package : PLANT

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)

NOKIAN TYRES US OPERATIONS LLC
520 NOKIAN TYRES DRIVE
DAYTON, TN
US 37321
Contact: CHRIS NAPIER
christopher.napier@nokiantyres.com
T: (423)457-3121
F: