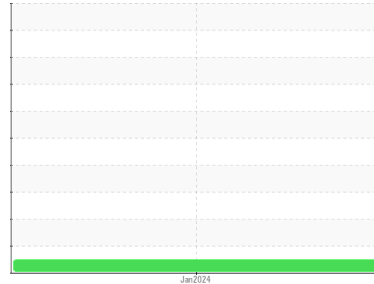


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
{UNASSIGNED}
Machine Id
Dt43
Component
Rear Differential
Fluid
GEAR OIL SAE 75W90 (16 QTS)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Dt43)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0116135	---	---
Sample Date	Client Info		12 Jan 2024	---	---
Machine Age	mls	Client Info	30227	---	---
Oil Age	mls	Client Info	75000	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >1200	204	---	---
Chromium	ppm	ASTM D5185m >8	2	---	---
Nickel	ppm	ASTM D5185m >20	5	---	---
Titanium	ppm	ASTM D5185m >4	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >30	5	---	---
Lead	ppm	ASTM D5185m >25	<1	---	---
Copper	ppm	ASTM D5185m >50	<1	---	---
Tin	ppm	ASTM D5185m >5	<1	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	161	---	---
Barium	ppm	ASTM D5185m 200	<1	---	---
Molybdenum	ppm	ASTM D5185m 12	0	---	---
Manganese	ppm	ASTM D5185m	3	---	---
Magnesium	ppm	ASTM D5185m 12	2	---	---
Calcium	ppm	ASTM D5185m 150	35	---	---
Phosphorus	ppm	ASTM D5185m 1650	1114	---	---
Zinc	ppm	ASTM D5185m 125	5	---	---
Sulfur	ppm	ASTM D5185m 22500	24958	---	---

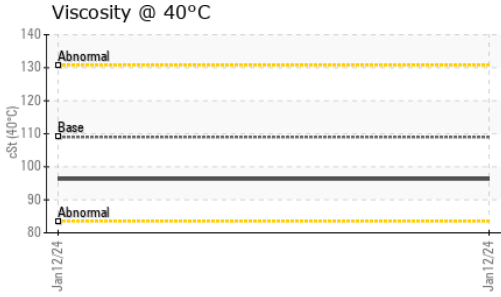
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >230	133	---	---
Sodium	ppm	ASTM D5185m	3	---	---
Potassium	ppm	ASTM D5185m >20	4	---	---

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 >.2	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

OIL ANALYSIS REPORT



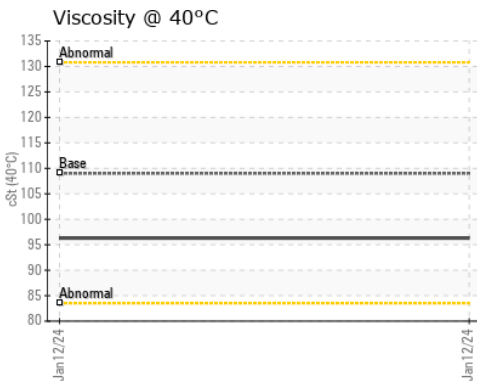
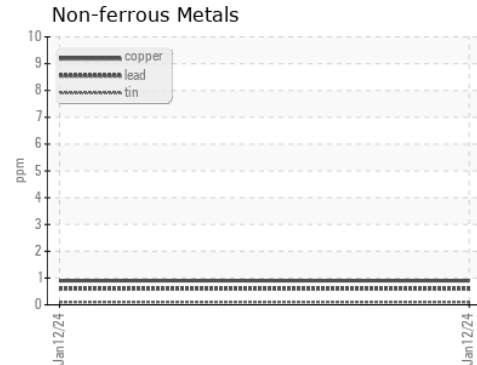
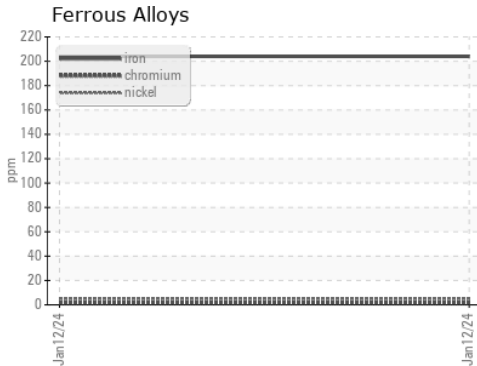
FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	109	96.3	---	---

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. : PCA0116135 **Recieved** : 18 Jan 2024
Lab Number : **06065216** **Diagnosed** : 22 Jan 2024
Unique Number : 10836598 **Diagnostician** : Sean Felton
Test Package : FLEET

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)

HK STEEL INC
 400 N PARSON ST
 WEST COLUMBIA, SC
 US 29169
 Contact: GEORGE EDWARDS
 gedwards@nwwhite.com

T:
F: