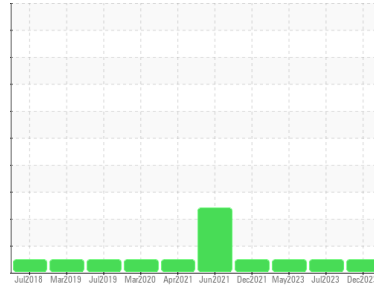


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT34**  
Component  
**Rear Differential**  
Fluid  
**CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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		<b>PCA0110918</b>	PCA0100053	PCA0084966
Sample Date	Client Info		<b>05 Dec 2023</b>	25 Jul 2023	12 May 2023
Machine Age	mls	Client Info	<b>226157</b>	215942	215942
Oil Age	mls	Client Info	<b>10215</b>	215942	75000
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >870	<b>273</b>	290	383
Chromium	ppm	ASTM D5185m >8	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m >25	<b>6</b>	13	7
Titanium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>20</b>	8	9
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >60	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>168</b>	223	151
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>10</b>	4	8
Manganese	ppm	ASTM D5185m	<b>2</b>	3	4
Magnesium	ppm	ASTM D5185m	<b>106</b>	37	92
Calcium	ppm	ASTM D5185m	<b>214</b>	61	179
Phosphorus	ppm	ASTM D5185m	<b>1203</b>	1352	1097
Zinc	ppm	ASTM D5185m	<b>181</b>	59	147
Sulfur	ppm	ASTM D5185m	<b>19874</b>	25056	23261

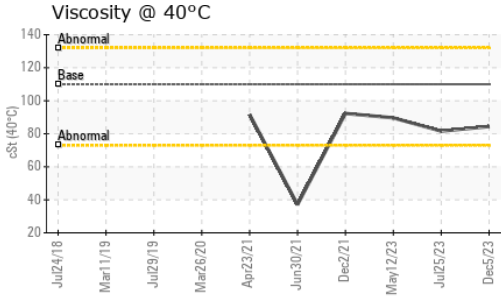
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >285	<b>37</b>	81	41
Sodium	ppm	ASTM D5185m	<b>2</b>	5	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	5	2

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>LIGHT</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

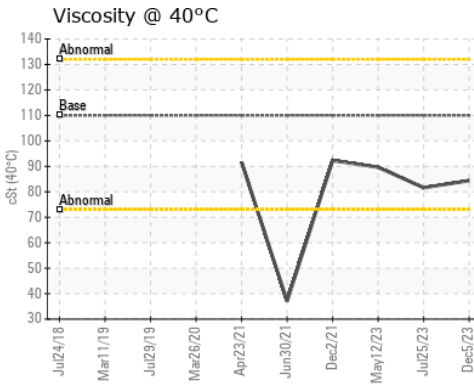
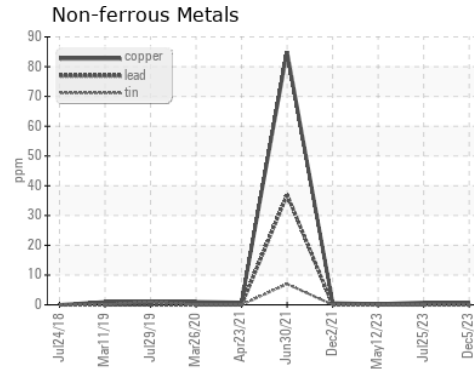
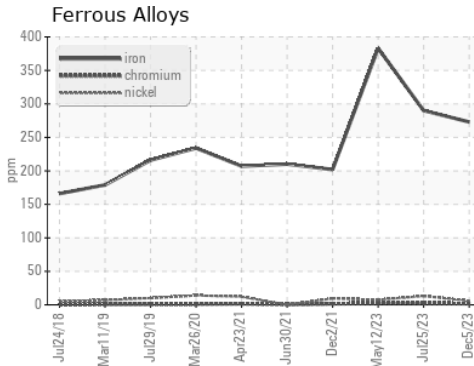


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	110	<b>84.4</b>	81.6	89.64

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110918  
**Lab Number** : **06028217**  
**Unique Number** : 10778008  
**Test Package** : FLEET

**Received** : 07 Dec 2023  
**Diagnosed** : 10 Dec 2023  
**Diagnostician** : Don Baldrige

**HK STEEL INC**  
 400 N PARSON ST  
 WEST COLUMBIA, SC  
 US 29169

Contact: GEORGE EDWARDS  
 gedwards@nwwhite.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: