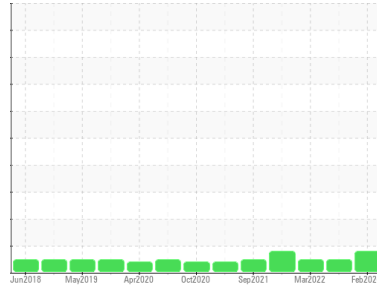


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**DT33**  
Component  
**Rear Differential**  
Fluid  
**CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

The aluminum level is abnormal. All other 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>PCA0104207</b>	PCA0104127	PCA0071351
Sample Date	Client Info		<b>05 Feb 2024</b>	31 Aug 2023	30 Mar 2022
Machine Age	mls	Client Info	<b>302303</b>	287410	231462
Oil Age	mls	Client Info	<b>75000</b>	75000	75000
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>ABNORMAL</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 >1200	<b>312</b>	180	65
Chromium	ppm	ASTM D5185m >8	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m >20	<b>10</b>	5	2
Titanium	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>▲ 32</b>	18	2
Lead	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m >5	<b>&lt;1</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>221</b>	260	226
Barium	ppm	ASTM D5185m	<b>0</b>	7	0
Molybdenum	ppm	ASTM D5185m	<b>5</b>	5	5
Manganese	ppm	ASTM D5185m	<b>3</b>	2	<1
Magnesium	ppm	ASTM D5185m	<b>70</b>	71	71
Calcium	ppm	ASTM D5185m	<b>81</b>	113	88
Phosphorus	ppm	ASTM D5185m	<b>1362</b>	1293	1439
Zinc	ppm	ASTM D5185m	<b>100</b>	108	89
Sulfur	ppm	ASTM D5185m	<b>22727</b>	25056	19913

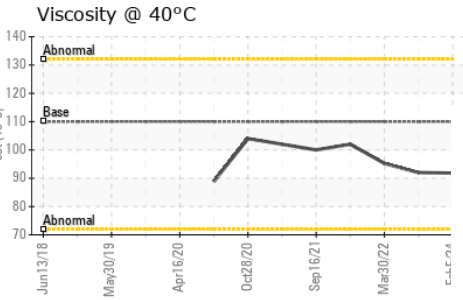
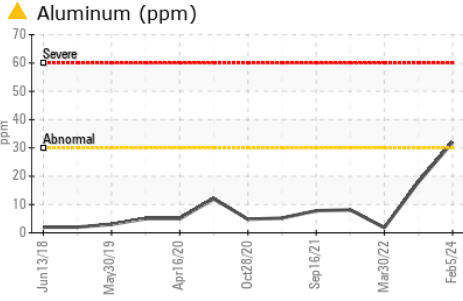
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >230	<b>48</b>	41	12
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>4</b>	<1	0

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
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>NONE</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

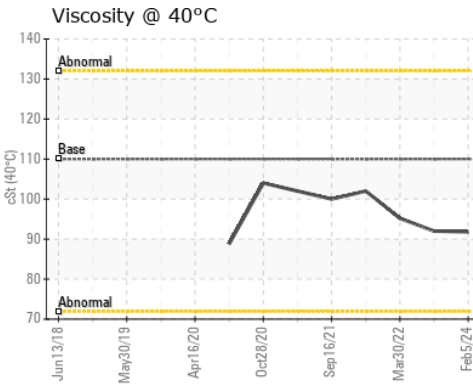
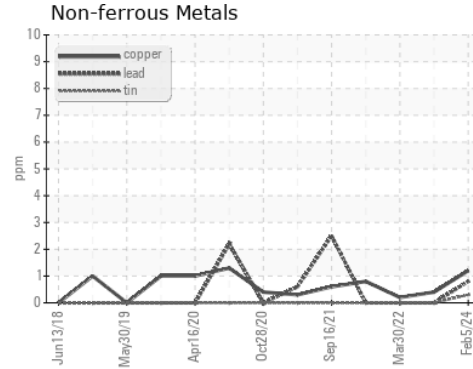
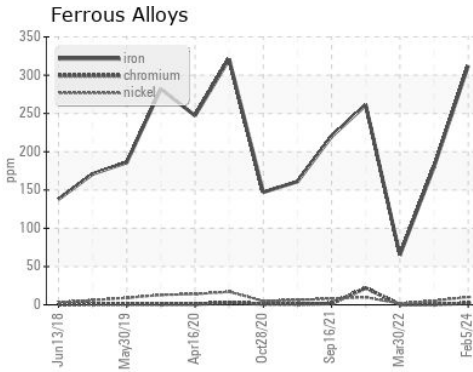
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	<b>91.8</b>	92.0	95.2

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.** : PCA0104207      **Received** : 15 Feb 2024  
**Lab Number** : 06091242      **Tested** : 16 Feb 2024  
**Unique Number** : 10884095      **Diagnosed** : 18 Feb 2024 - Don Baldrige  
**Test Package** : FLEET

**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: