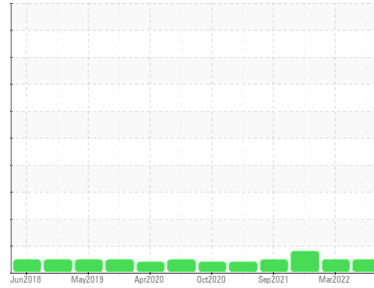


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**DT33**  
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>PCA0104127</b>	PCA0071351	PCA0063034
Sample Date	Client Info		<b>31 Aug 2023</b>	30 Mar 2022	27 Jan 2022
Machine Age	mls	Client Info	<b>287410</b>	231462	223205
Oil Age	mls	Client Info	<b>75000</b>	75000	75000
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >870	<b>180</b>	65	261
Chromium	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	▲ 22
Nickel	ppm	ASTM D5185m >25	<b>5</b>	2	10
Titanium	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >40	<b>18</b>	2	8
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>	---	0
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>260</b>	226	217
Barium	ppm	ASTM D5185m	<b>7</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>5</b>	5	<1
Manganese	ppm	ASTM D5185m	<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m	<b>71</b>	71	1
Calcium	ppm	ASTM D5185m	<b>113</b>	88	55
Phosphorus	ppm	ASTM D5185m	<b>1293</b>	1439	1383
Zinc	ppm	ASTM D5185m	<b>108</b>	89	0
Sulfur	ppm	ASTM D5185m	<b>25056</b>	19913	22258

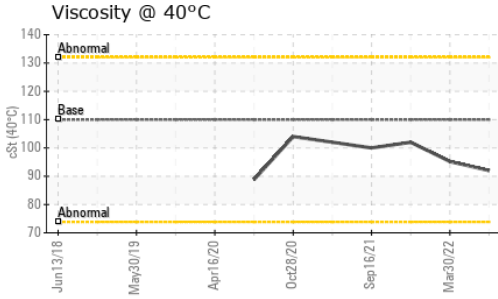
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >285	<b>41</b>	12	55
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	2

## VISUAL

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

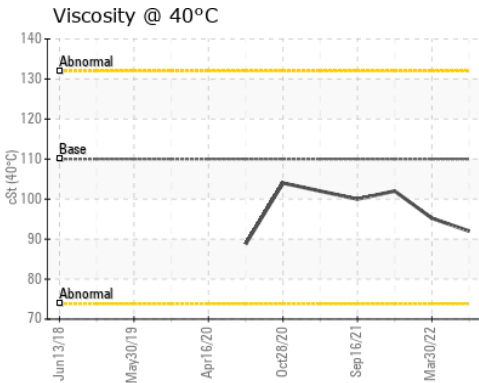
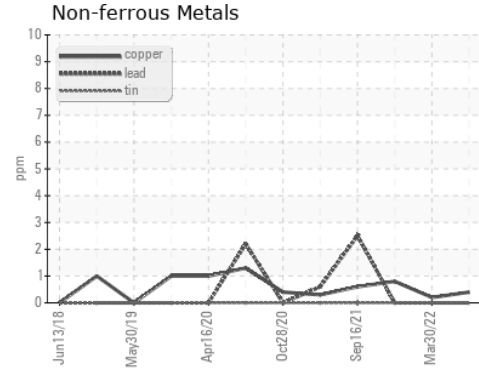
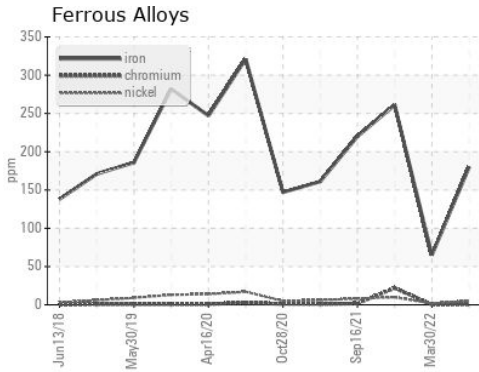


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	<b>92.0</b>	95.2	102

SAMPLE IMAGES		method	limit/base	current	history1	history2
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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.** : PCA0104127 **Received** : 07 Sep 2023  
**Lab Number** : 05945341 **Diagnosed** : 10 Sep 2023  
**Unique Number** : 10635953 **Diagnostician** : Don Baldrige  
**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**  
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 US 29169

Contact: GEORGE EDWARDS  
 gedwards@nwwhite.com

T:  
F: