

# A23G02 - GEARBOX

Sample No: WC0526485

Oil Type: PETRO CANADA PURITY FG SYNTH EP GEAR 220

## SAMPLE INFORMATION

Sample Number	<b>WC0526485</b>	WC0418946	WC0449346	---
Sample Date	<b>15 Jul 2021</b>	27 May 2020	20 Apr 2020	---
Machine Hours	<b>0</b>	0	0	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Not Changd	Not Changd	---
Sample Status	<b>ABNORMAL</b>	SEVERE	ABNORMAL	---

**INGREDION - BEDFORD PARK**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>219</b>	212	217	---
Acid Number (AN)	mg KOH/g	<b>0.322</b>	6.446	0.349	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	0.149	---
Silicon	ppm	<b>21</b>	9	2	---
Sodium	ppm	<b>0</b>	3	5	---
Potassium	ppm	<b>0</b>	0	7	---

## WEAR METALS

Iron	ppm	<b>4</b>	317	61	---
Copper	ppm	<b>2</b>	<1	<1	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>0</b>	3	<1	---
Chromium	ppm	<b>0</b>	1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	143	0	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	3	2	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>0</b>	10	33	---
Magnesium	ppm	<b>0</b>	1	4	---
Zinc	ppm	<b>0</b>	94	3	---
Phosphorus	ppm	<b>466</b>	1604	156	---
Barium	ppm	<b>0</b>	0	1012	---
Boron	ppm	<b>&lt;1</b>	3	0	---

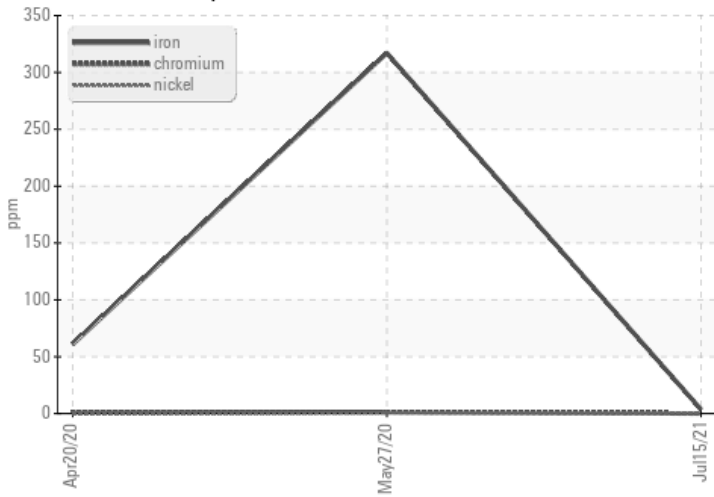
## Diagnosis

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

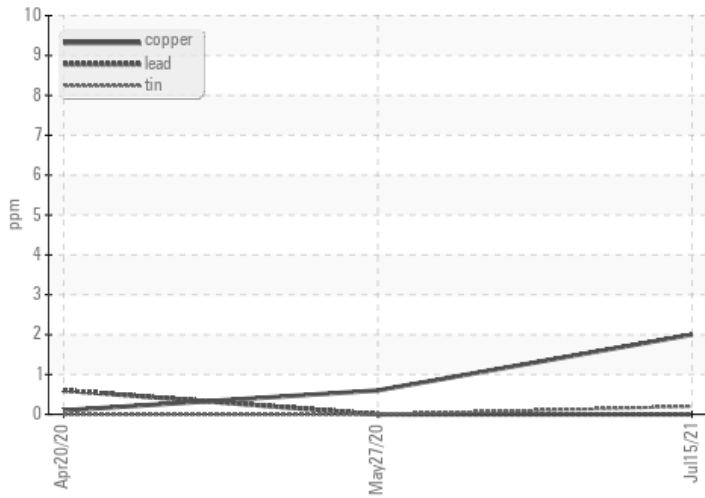
**Depot:** INGBED  
**Unique No:** 9592603  
**Signed:** Jonathan Hester  
**Report Date:** 23 Jul 2021

# GRAPHS

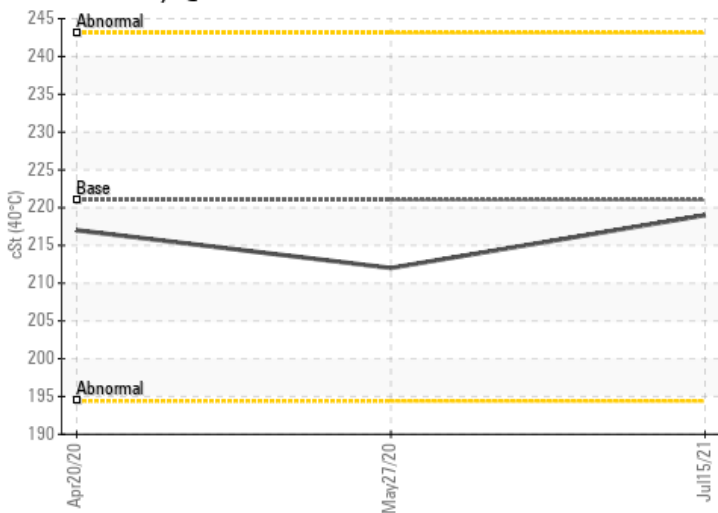
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

