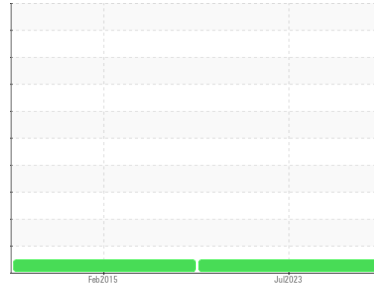




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Drive Room**  
 Machine Id  
**APM 1 - Hansen Gearbox (S/N 1HGB)**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA 220 (130 LTR)**

## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0841112</b>	WC903775	---
Sample Date	Client Info	<b>23 Jul 2023</b>	06 Feb 2015	---
Machine Age	hrs	Client Info	<b>7452</b>	7452
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	---
Iron	ppm	ASTM D5185(m) >200	<b>2</b>	3
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	0
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	0
Lead	ppm	ASTM D5185(m) >100	<b>&lt;1</b>	0
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	2
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.4	<b>3</b>	<1
Barium	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0
Calcium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	8
Phosphorus	ppm	ASTM D5185(m) 215	<b>170</b>	270
Zinc	ppm	ASTM D5185(m) 0	<b>4</b>	5
Sulfur	ppm	ASTM D5185(m) 7039	<b>7612</b>	9588
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1

## CONTAMINANTS

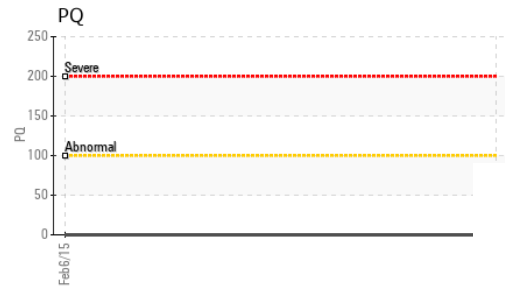
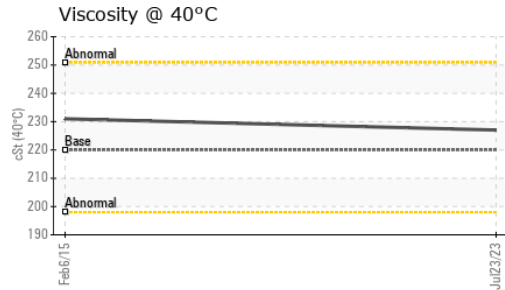
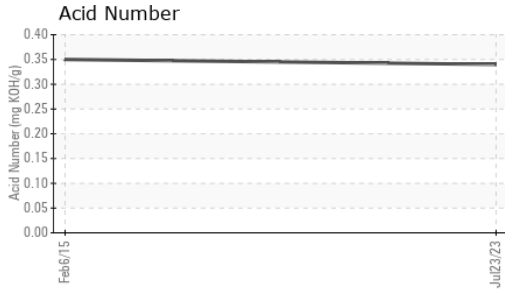
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>2</b>	2
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.34</b>	0.35



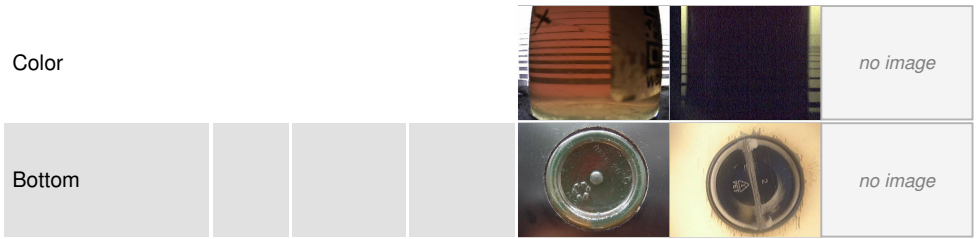
# OIL ANALYSIS REPORT



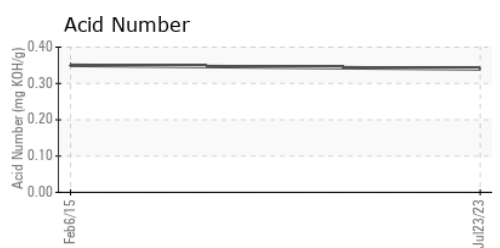
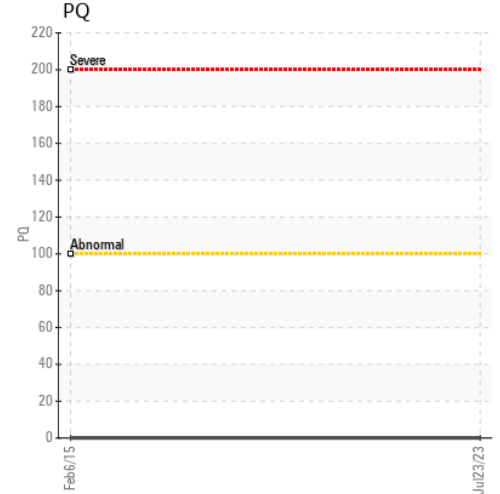
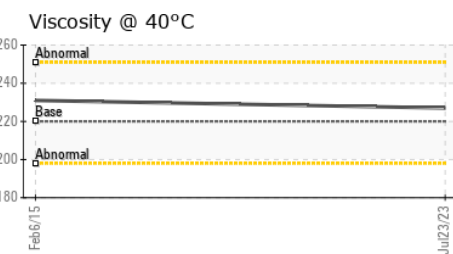
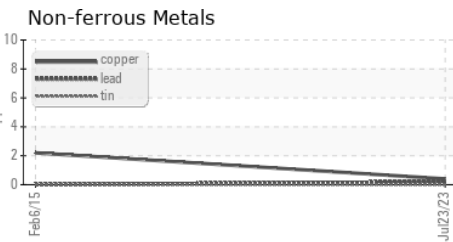
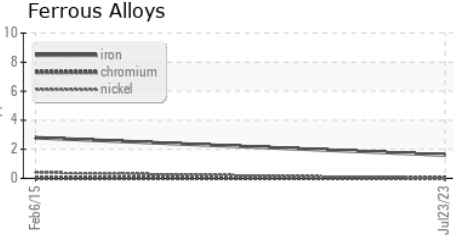
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	220	227	231	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0841112 **Received** : 19 Dec 2023  
**Lab Number** : 02604218 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 5697303 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**DCC DOPPELMAYR CABLE CAR**  
 6100 VISCOUNT RD, GENERAL DELIVERIES 2ND FLOOR  
 MISSISSAUGA, ON  
 CA L9V 0A1  
 Contact: Dave Simpson  
 dsimpson@dccooperations.com  
 T: (905)612-8630  
 F: (905)612-0626

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.