



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**[449087]**

Machine Id

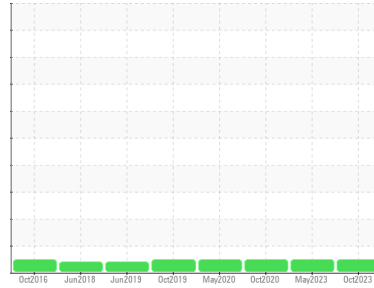
**46CDST - DISTRIBUTION CONVEYOR**

Component

**Gearbox**

Fluid

**LUBRICATION ENG DUOLEC 1605 GEAR OIL 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### 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>WC0802586</b>	WC0582737	WC0498959
Sample Date	Client Info		<b>05 Oct 2023</b>	08 May 2023	22 Oct 2020
Machine Age	yrs	Client Info	<b>0</b>	0	30
Oil Age	yrs	Client Info	<b>0</b>	0	1
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	20
Iron	ppm	ASTM D5185(m) >200	<b>10</b>	9	11
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>29</b>	25	26
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	<b>4</b>	2	3
Phosphorus	ppm	ASTM D5185(m)	<b>552</b>	608	553
Zinc	ppm	ASTM D5185(m)	<b>2</b>	3	1
Sulfur	ppm	ASTM D5185(m)	<b>7411</b>	7222	7439
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

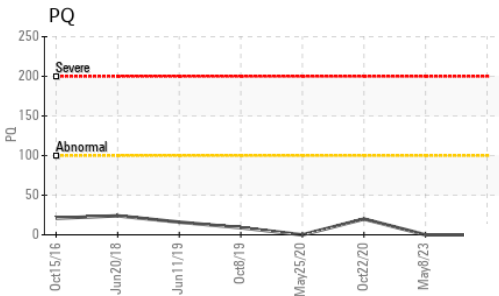
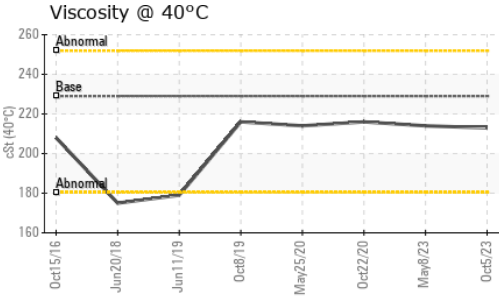
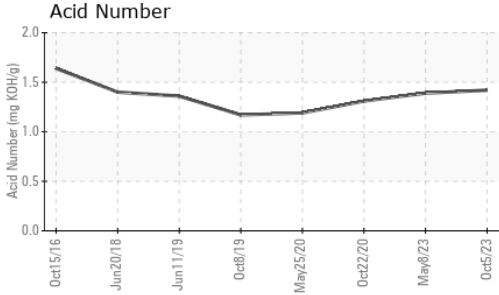
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>1</b>	1	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>1.42</b>	1.39	1.31



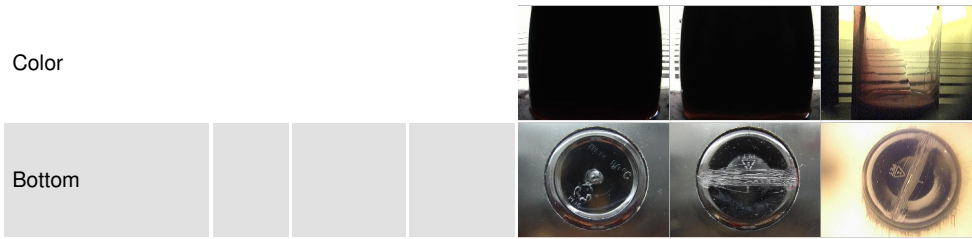
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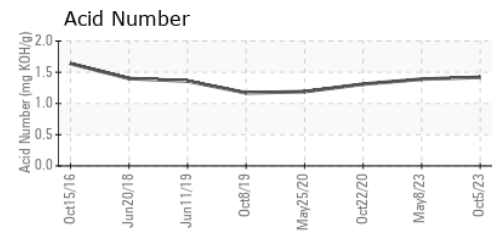
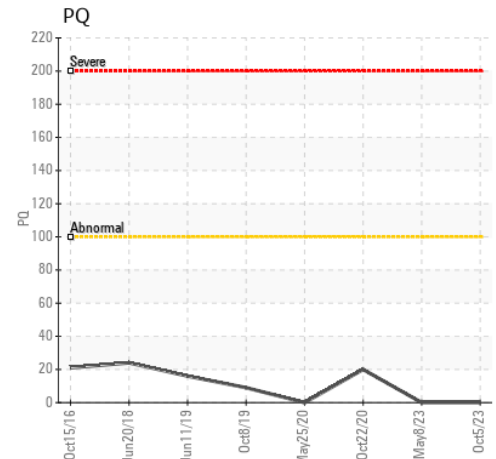
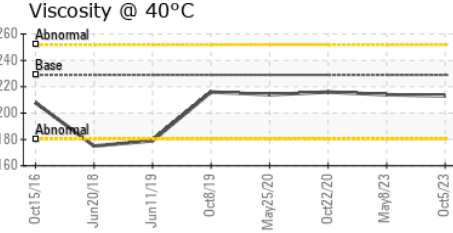
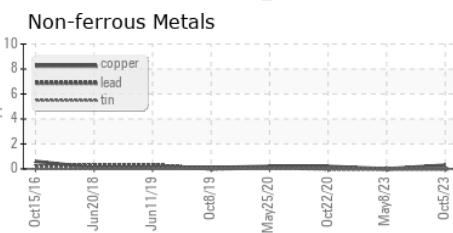
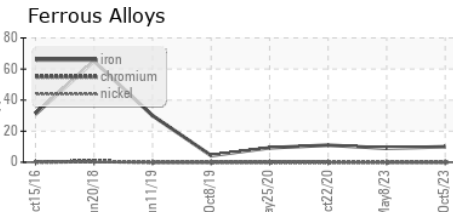
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	.2%
Free Water	scalar	Visual*	>0.2	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	229.0	213	214

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.** : WC0802586  
**Lab Number** : 02591865  
**Unique Number** : 5668944  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**HIRAM WALKER & SONS LTD.**  
 2072 RIVERSIDE DRIVE EAST, BOX 2518  
 WINDSOR, ON  
 CA N8Y 4S5  
 Contact: Matt Morand  
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 T: (519)561-5359  
 F: (519)971-5719

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.