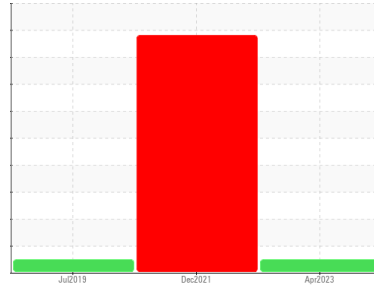




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**[13854078]**

Machine Id

**Q-1705C SOUTH BRIDGE (S/N 10414057)**

Component

**Drive**

Fluid

**IRVING HDH SAE 75W90 (--- 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>WC0764271</b>	WC0371109	WC0371092
Sample Date	Client Info		<b>09 Apr 2023</b>	16 Dec 2021	31 Jul 2019
Machine Age	yrs	Client Info	<b>1</b>	0	0
Oil Age	yrs	Client Info	<b>1</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	SEVERE	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	7
Iron	ppm	ASTM D5185(m) >150	<b>44</b>	▲ 202	30
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >100	<b>&lt;1</b>	▲ 130	<1
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	■ 300	<1
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	▲ 5	0
Antimony	ppm	ASTM D5185(m) >5	<b>4</b>	<1	2
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>91</b>	19	98
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	1
Calcium	ppm	ASTM D5185(m)	<b>18</b>	15	32
Phosphorus	ppm	ASTM D5185(m)	<b>1078</b>	464	969
Zinc	ppm	ASTM D5185(m)	<b>32</b>	191	42
Sulfur	ppm	ASTM D5185(m)	<b>22474</b>	7507	21698
Lithium	ppm	ASTM D5185(m)	<b>2</b>	<1	2

## CONTAMINANTS

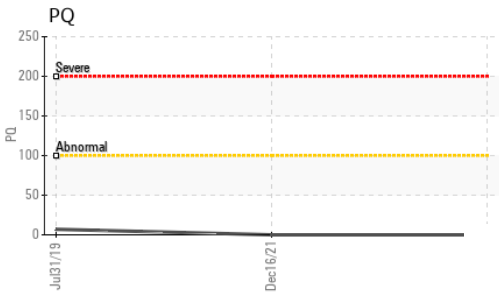
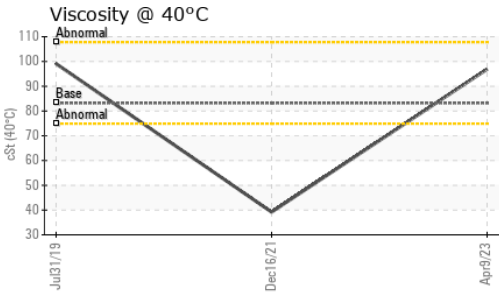
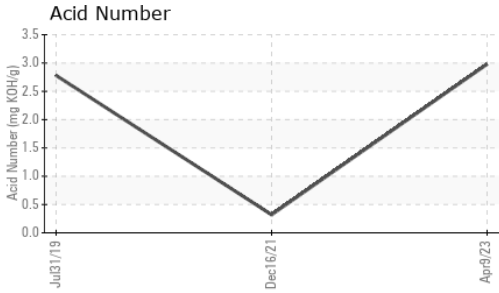
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>2</b>	2	1
Sodium	ppm	ASTM D5185(m)	<b>5</b>	1	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>2.98</b>	0.32	2.78



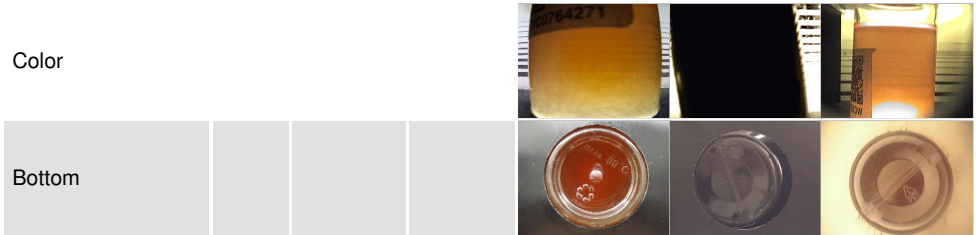
# OIL ANALYSIS REPORT



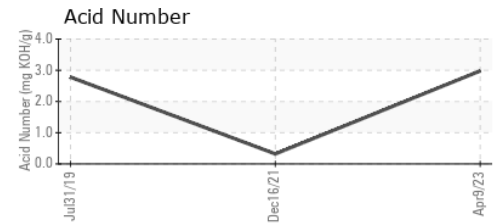
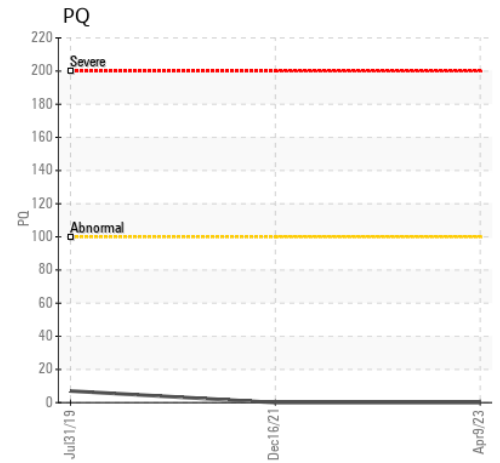
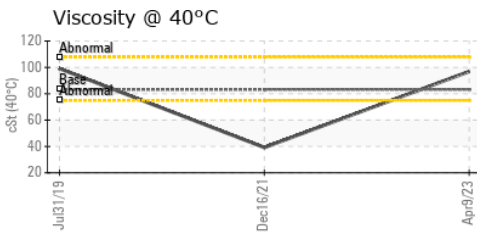
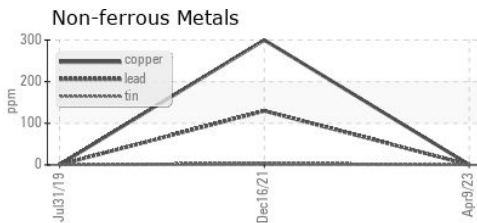
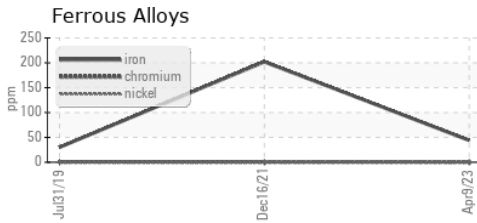
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	83.2	96.9 ▲	39.2

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.** : WC0764271 **Received** : 10 May 2023  
**Lab Number** : 02556681 **Diagnosed** : 11 May 2023  
**Unique Number** : 5577721 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Parker Wellbore**  
 215 Water Street, Suite 802, PO Box 74  
 St. John's, NL  
 CA A1C 6C9  
 Contact: HMDC Material Control Coordinator  
 hmdc.material.control.coordinator@exxonmobil.com

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.

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F: