



OIL ANALYSIS REPORT

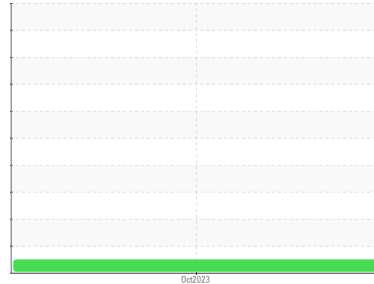
Sample Rating Trend

NORMAL



Area
[13872669]
Machine Id
1802420

Component
Gearbox
Fluid
IRVING HDH SAE 75W90 (7 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		WC0764314	---	---
Sample Date	Client Info		10 Oct 2023	---	---
Machine Age	mths	Client Info	3	---	---
Oil Age	mths	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m) >200	40	---	---
Chromium	ppm	ASTM D5185(m) >15	<1	---	---
Nickel	ppm	ASTM D5185(m) >15	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m) >25	<1	---	---
Lead	ppm	ASTM D5185(m) >100	2	---	---
Copper	ppm	ASTM D5185(m) >200	6	---	---
Tin	ppm	ASTM D5185(m) >25	0	---	---
Antimony	ppm	ASTM D5185(m) >5	1	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	75	---	---
Barium	ppm	ASTM D5185(m)	1	---	---
Molybdenum	ppm	ASTM D5185(m)	<1	---	---
Manganese	ppm	ASTM D5185(m)	2	---	---
Magnesium	ppm	ASTM D5185(m)	3	---	---
Calcium	ppm	ASTM D5185(m)	37	---	---
Phosphorus	ppm	ASTM D5185(m)	917	---	---
Zinc	ppm	ASTM D5185(m)	39	---	---
Sulfur	ppm	ASTM D5185(m)	20407	---	---
Lithium	ppm	ASTM D5185(m)	1	---	---

CONTAMINANTS

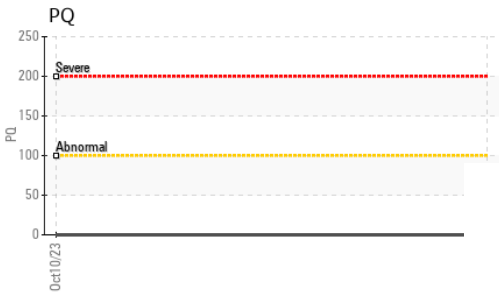
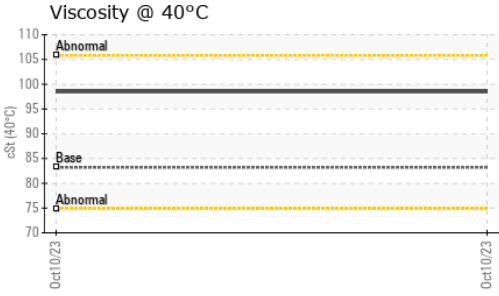
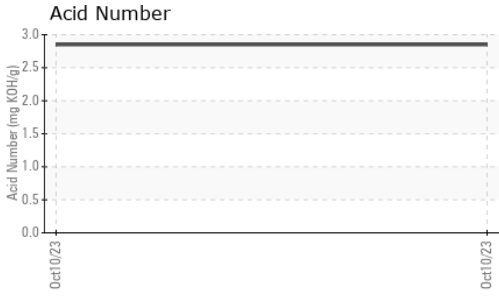
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	2	---	---
Sodium	ppm	ASTM D5185(m)	7	---	---
Potassium	ppm	ASTM D5185(m) >20	7	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	2.85	---	---



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

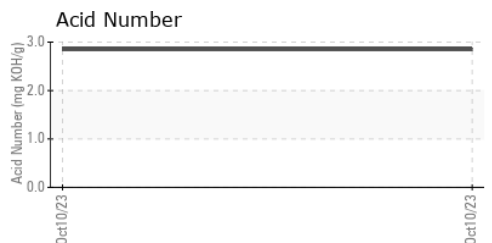
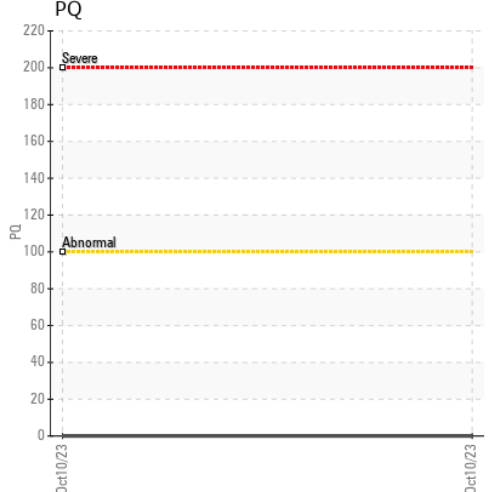
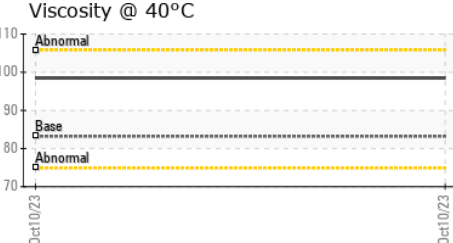
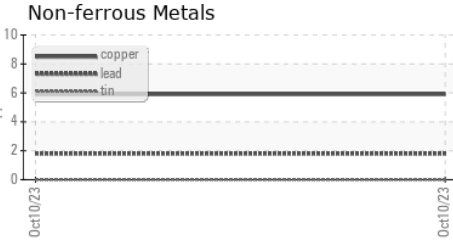
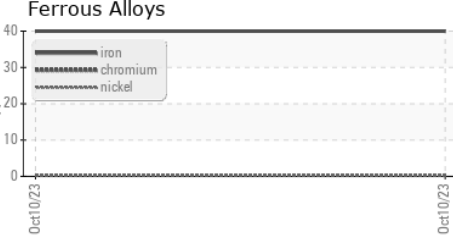
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	83.2	98.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

	no image	no image
Bottom		no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0764314
Lab Number : 02591180
Unique Number : 5668259
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: Nick Loder
 Nick.Loder@parkerwellbore.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.