



PROBLEM SUMMARY

Sample Rating Trend

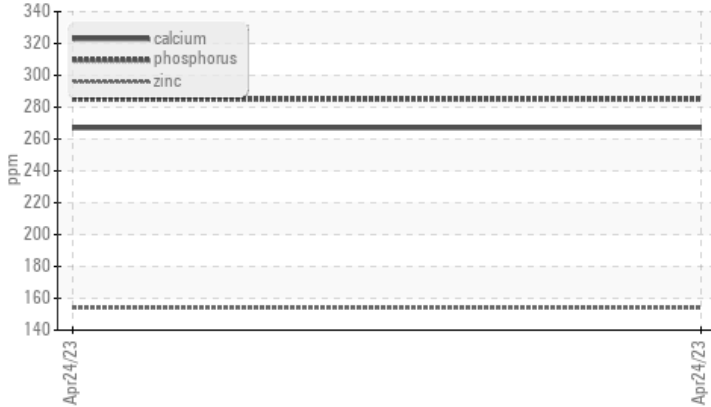
ADDITIVES

Area
[13831535]
 Machine Id
M-1412B M72 DRILLFLOOR SOUTH WINCH (S/N 1802557)
 Component
Gearbox
 Fluid
IRVING HDH SAE 75W90 (6 LTR)



COMPONENT CONDITION SUMMARY

▲ Additives



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	---	---
Boron ppm ASTM D5185(m)	▲ 11	---	---
Calcium ppm ASTM D5185(m)	▲ 267	---	---
Phosphorus ppm ASTM D5185(m)	▲ 285	---	---
Zinc ppm ASTM D5185(m)	▲ 154	---	---
Sulfur ppm ASTM D5185(m)	▲ 5870	---	---

Customer Id: PAR215STJ
 Sample No.: WC0764264
 Lab Number: 02556680
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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 Gloria Gonzalez +1 (289)291-4643 x4643
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RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

ADDITIVES

Area
[13831535]
 Machine Id
M-1412B M72 DRILLFLOOR SOUTH WINCH (S/N 1802557)
 Component
Gearbox
 Fluid
IRVING HDH SAE 75W90 (6 LTR)



DIAGNOSIS

▲ Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. 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		WC0764264	---	---
Sample Date	Client Info		24 Apr 2023	---	---
Machine Age	yrs	Client Info	1	---	---
Oil Age	yrs	Client Info	1	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ATTENTION	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		45	---	---
Iron	ppm	ASTM D5185(m) >200	29	---	---
Chromium	ppm	ASTM D5185(m) >15	<1	---	---
Nickel	ppm	ASTM D5185(m) >15	<1	---	---
Titanium	ppm	ASTM D5185(m)	3	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	<1	---	---
Lead	ppm	ASTM D5185(m) >100	5	---	---
Copper	ppm	ASTM D5185(m) >200	19	---	---
Tin	ppm	ASTM D5185(m) >25	<1	---	---
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)	▲ 11	---	---
Barium	ppm	ASTM D5185(m)	2	---	---
Molybdenum	ppm	ASTM D5185(m)	3	---	---
Manganese	ppm	ASTM D5185(m)	2	---	---
Magnesium	ppm	ASTM D5185(m)	13	---	---
Calcium	ppm	ASTM D5185(m)	▲ 267	---	---
Phosphorus	ppm	ASTM D5185(m)	▲ 285	---	---
Zinc	ppm	ASTM D5185(m)	▲ 154	---	---
Sulfur	ppm	ASTM D5185(m)	▲ 5870	---	---
Lithium	ppm	ASTM D5185(m)	3	---	---

CONTAMINANTS

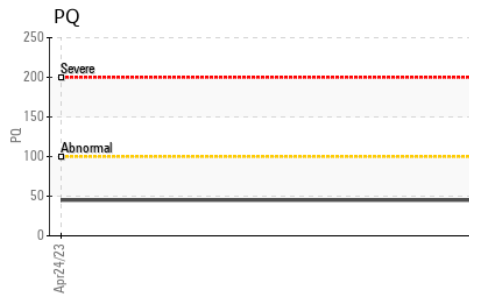
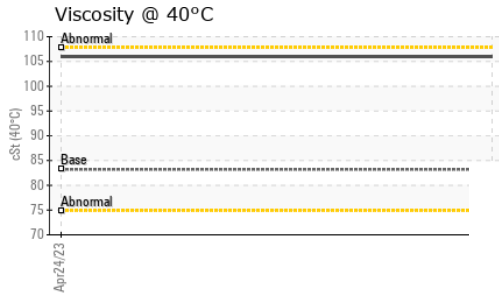
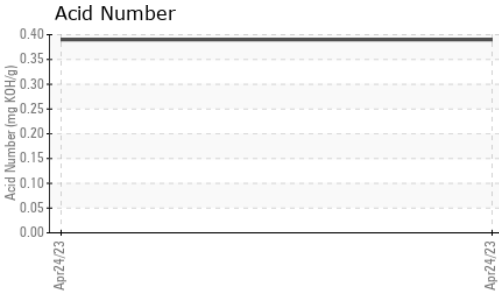
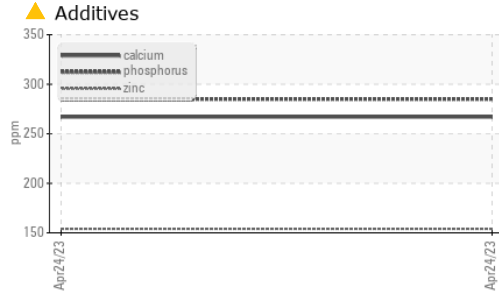
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	4	---	---
Sodium	ppm	ASTM D5185(m)	33	---	---
Potassium	ppm	ASTM D5185(m) >20	13	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.39	---	---



OIL ANALYSIS REPORT

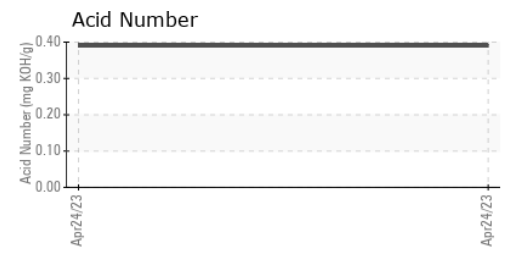
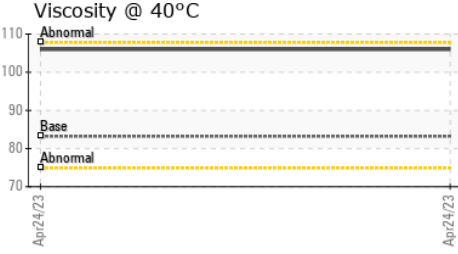
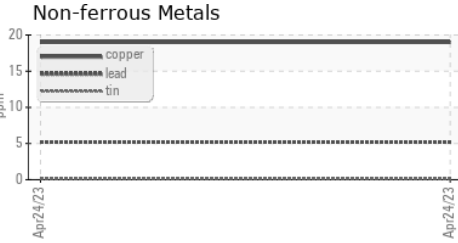
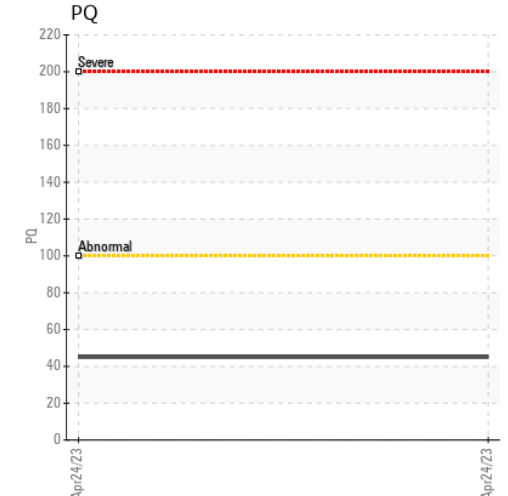
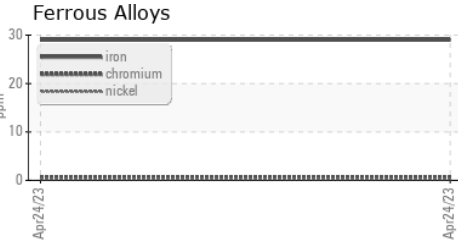


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	106	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0764264 **Received** : 10 May 2023
Lab Number : 02556680 **Diagnosed** : 12 May 2023
Unique Number : 5577720 **Diagnostician** : Kevin Marson
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.