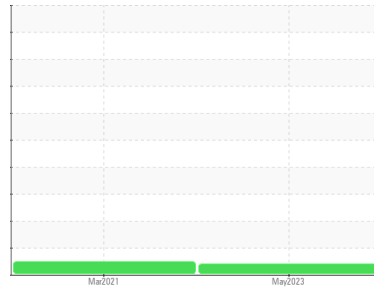




Machine Id
LIEBHERR HS895 188297
 Component
Splitter Box
 Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

Sample Rating Trend



VISCOSITY



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
 Viscosity of sample indicates oil is within SAE 80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		LH0260275	LH0195192	---
Sample Date	Client Info		07 May 2023	18 Mar 2021	---
Machine Age	hrs	Client Info	13473	6156	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed		Client Info	N/A	Changed	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.1	NEG	NEG	---
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WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	>100	16	3	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	---
Lead	ppm	ASTM D5185(m)	>30	<1	<1	---
Copper	ppm	ASTM D5185(m)	>20	5	4	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

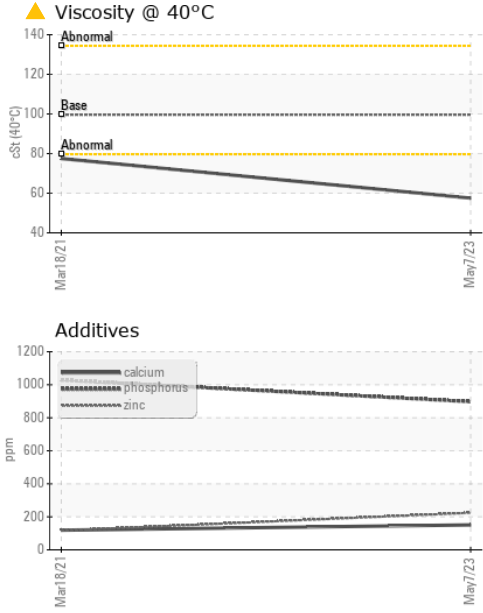
ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	328	159	247	---
Barium	ppm	ASTM D5185(m)	1	0	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	3	3	---
Calcium	ppm	ASTM D5185(m)	7	151	119	---
Phosphorus	ppm	ASTM D5185(m)	1145	897	1028	---
Zinc	ppm	ASTM D5185(m)	3	224	116	---
Sulfur	ppm	ASTM D5185(m)	17909	11103	18331	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>30	2	2	---
Sodium	ppm	ASTM D5185(m)	>25	1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

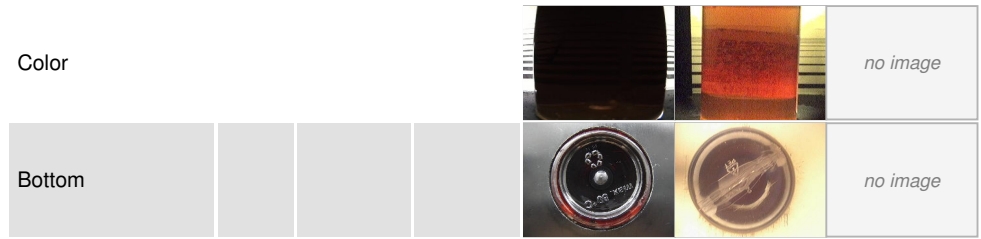
OIL ANALYSIS REPORT



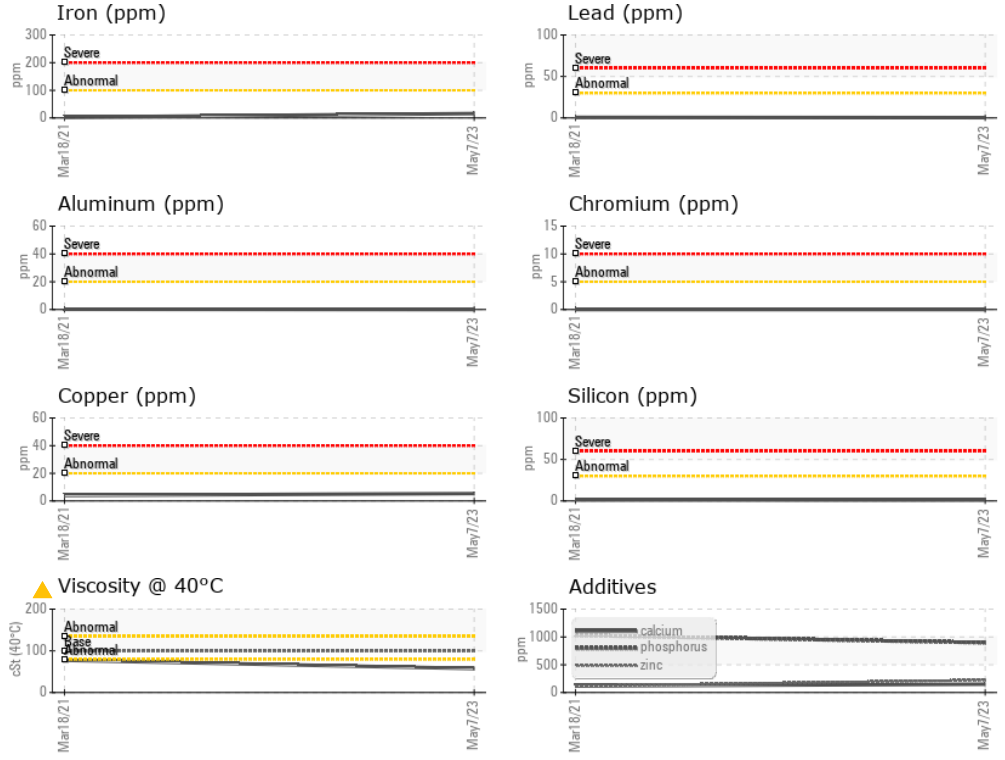
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	99.6 ▲ 57.5	77.5	---

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. : LH0260275
Lab Number : 02556605
Unique Number : 5577645
Test Package : MOB 1

Received : 10 May 2023
Tested : 10 May 2023
Diagnosed : 11 May 2023 - Kevin Marson

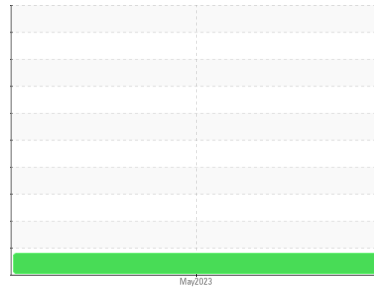
Harbour Development
 380 Bayside Dr
 St John, NB
 CA E2J 4Y8
 Contact: Darien Edison
 edison.darien@harbourdev.com

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.



Machine Id
LIEBHERR HS895 188297
 Component
Winch
 Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

Sample Rating Trend



DIAGNOSIS

▲ Recommendation
 We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

▲ Wear
 Iron ppm levels are abnormal.

Contamination
 There is no indication of any contamination in the oil.

Fluid Condition
 Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		LH0260280	---	---
Sample Date	Client Info		02 May 2023	---	---
Machine Age	hrs	Client Info	13473	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed		Client Info	N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.2	NEG	---	---
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WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184*		63	---	---
Iron	ppm	ASTM D5185(m)	>150	▲ 238	---	---
Chromium	ppm	ASTM D5185(m)	>10	2	---	---
Nickel	ppm	ASTM D5185(m)	>10	1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	1	---	---
Lead	ppm	ASTM D5185(m)	>15	0	---	---
Copper	ppm	ASTM D5185(m)	>80	<1	---	---
Tin	ppm	ASTM D5185(m)		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	---	---

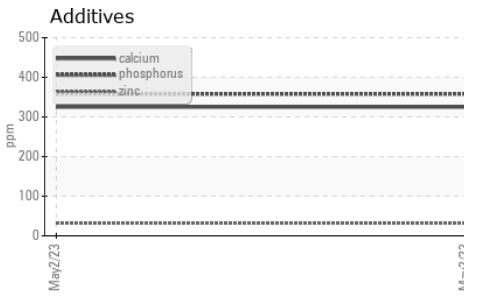
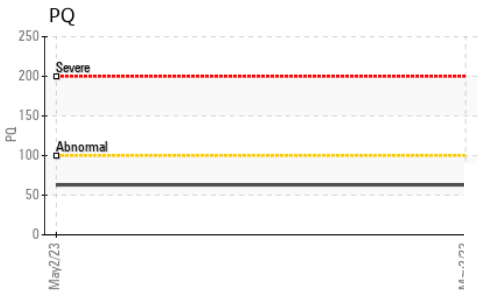
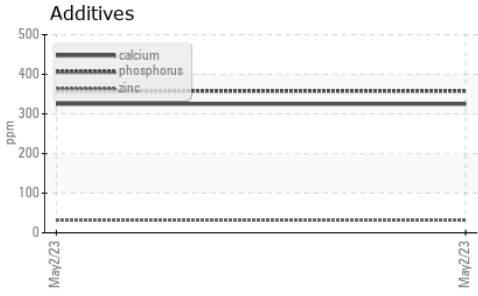
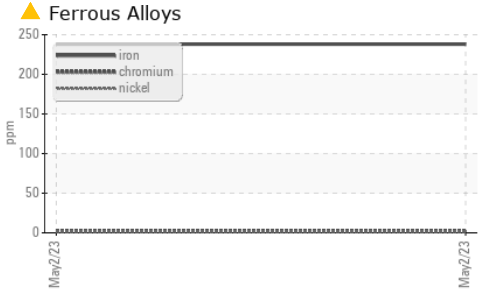
ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	328	8	---	---
Barium	ppm	ASTM D5185(m)	1	1	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)	1	4	---	---
Calcium	ppm	ASTM D5185(m)	7	325	---	---
Phosphorus	ppm	ASTM D5185(m)	1145	358	---	---
Zinc	ppm	ASTM D5185(m)	3	31	---	---
Sulfur	ppm	ASTM D5185(m)	17909	11535	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>25	9	---	---
Sodium	ppm	ASTM D5185(m)		4	---	---
Potassium	ppm	ASTM D5185(m)	>20	7	---	---

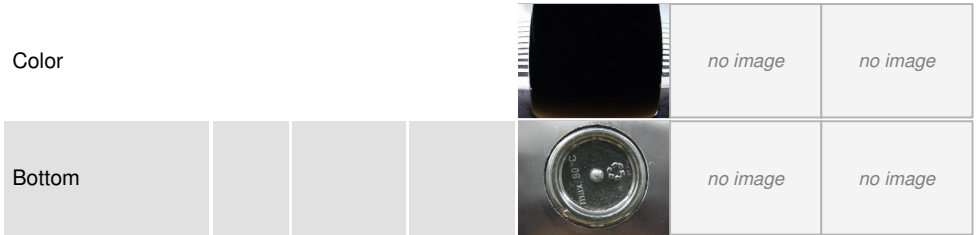
OIL ANALYSIS REPORT



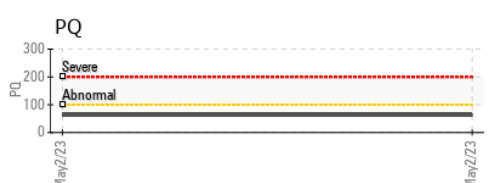
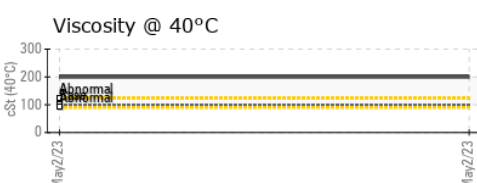
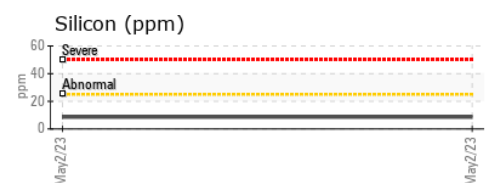
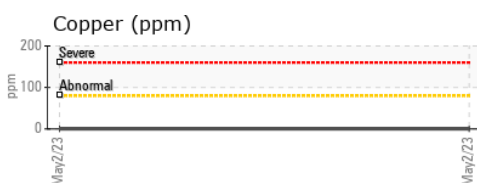
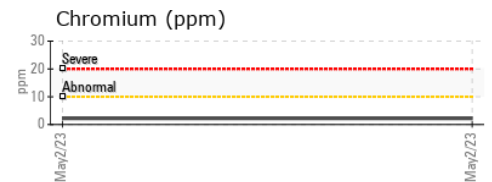
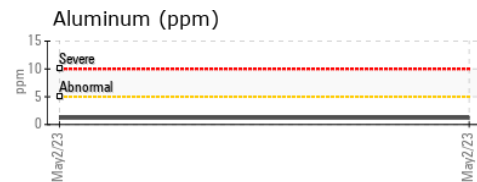
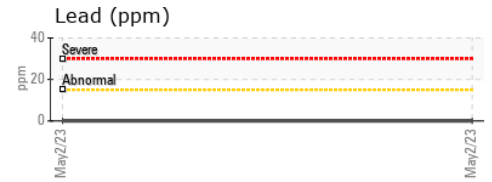
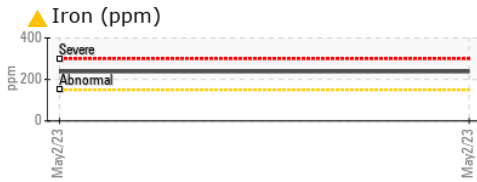
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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)	99.6	200	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



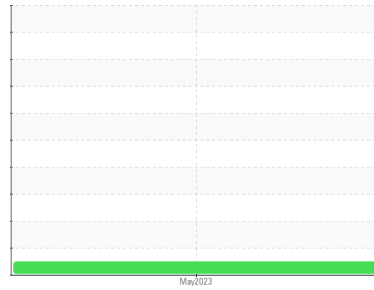
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0260280 **Received** : 10 May 2023
Lab Number : **02556608** **Tested** : 10 May 2023
Unique Number : 5577648 **Diagnosed** : 11 May 2023 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

Harbour Development
 380 Bayside Dr
 St John, NB
 CA E2J 4Y8
 Contact: Darien Edison
 edison.darien@harbourdev.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.



Machine Id
LIEBHERR HS895 188297
 Component
Luffing Winch
 Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)



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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			LH0260279	---	---
Sample Date	Client Info			02 May 2023	---	---
Machine Age	hrs	Client Info		13473	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				NORMAL	---	---

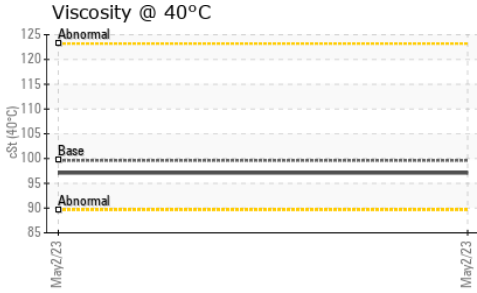
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	8	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>10	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	---	---
Lead	ppm	ASTM D5185(m)	>15	<1	---	---
Copper	ppm	ASTM D5185(m)	>80	1	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Antimony	ppm	ASTM D5185(m)	>5	0	---	---
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)	328	312	---	---
Barium	ppm	ASTM D5185(m)	1	0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	1	2	---	---
Calcium	ppm	ASTM D5185(m)	7	9	---	---
Phosphorus	ppm	ASTM D5185(m)	1145	1387	---	---
Zinc	ppm	ASTM D5185(m)	3	19	---	---
Sulfur	ppm	ASTM D5185(m)	17909	22158	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Sodium	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---

OIL ANALYSIS REPORT



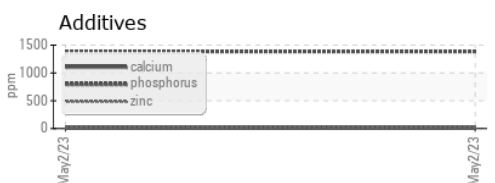
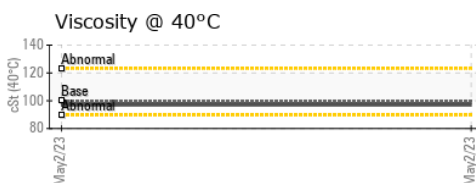
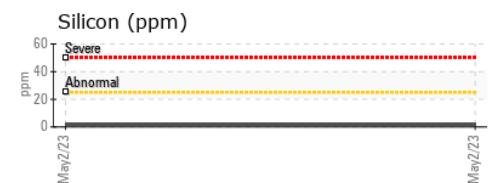
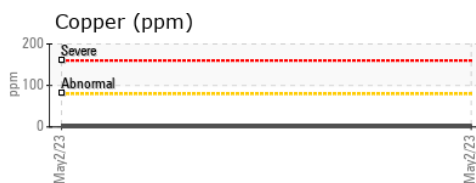
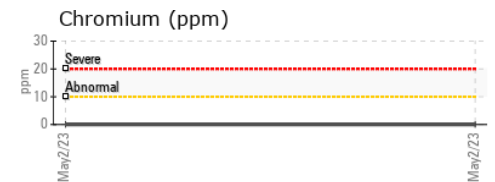
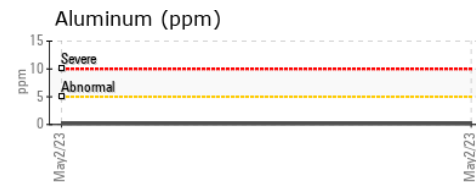
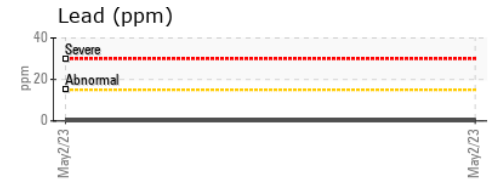
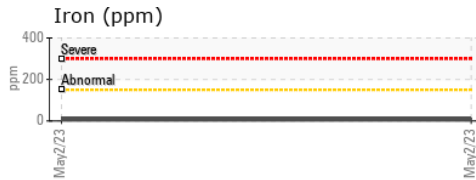
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
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)	99.6	97.1	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0260279
Lab Number : 02556610
Unique Number : 5577650
Test Package : MOB 1

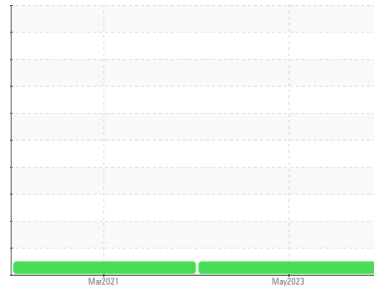
Received : 10 May 2023
Tested : 10 May 2023
Diagnosed : 10 May 2023 - Wes Davis

Harbour Development
 380 Bayside Dr
 St John, NB
 CA E2J 4Y8
 Contact: Darien Edison
 edison.darien@harbourdev.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.



Machine Id
LIEBHERR HS895 188297
 Component
1 Winch
 Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			LH0260277	LH0195191	---
Sample Date	Client Info			02 May 2023	18 Mar 2021	---
Machine Age	hrs	Client Info		13473	6156	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

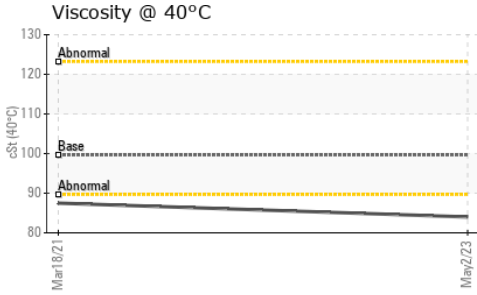
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	34	24	---
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	---
Lead	ppm	ASTM D5185(m)	>15	0	<1	---
Copper	ppm	ASTM D5185(m)	>80	3	1	---
Tin	ppm	ASTM D5185(m)		0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	328	313	312	---
Barium	ppm	ASTM D5185(m)	1	7	3	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	4	2	---
Calcium	ppm	ASTM D5185(m)	7	13	10	---
Phosphorus	ppm	ASTM D5185(m)	1145	1357	1215	---
Zinc	ppm	ASTM D5185(m)	3	10	7	---
Sulfur	ppm	ASTM D5185(m)	17909	22168	21920	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	2	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---

OIL ANALYSIS REPORT



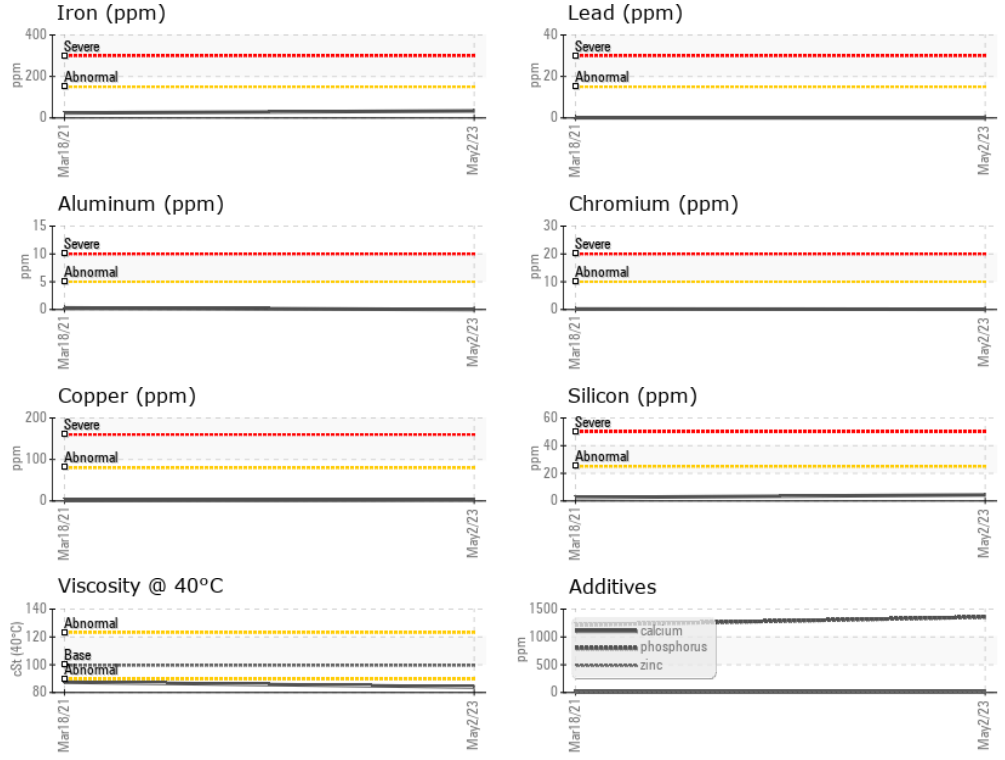
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance	scalar	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)	99.6	84.0	87.5	---

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

GRAPHS



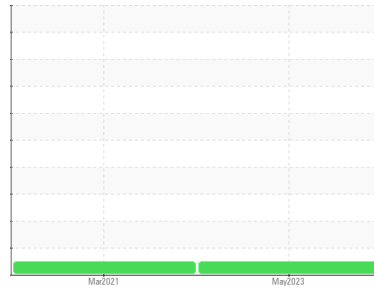
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0260277 **Received** : 10 May 2023
Lab Number : **02556606** **Tested** : 10 May 2023
Unique Number : 5577646 **Diagnosed** : 10 May 2023 - Wes Davis
Test Package : MOB 1

Harbour Development
 380 Bayside Dr
 St John, NB
 CA E2J 4Y8
 Contact: Darien Edison
 edison.darien@harbourdev.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.



Machine Id
LIEBHERR HS895 188297
 Component
2 Winch
 Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)



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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			LH0260278	LH0195194	---
Sample Date	Client Info			02 May 2023	18 Mar 2021	---
Machine Age	hrs	Client Info		13473	6156	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

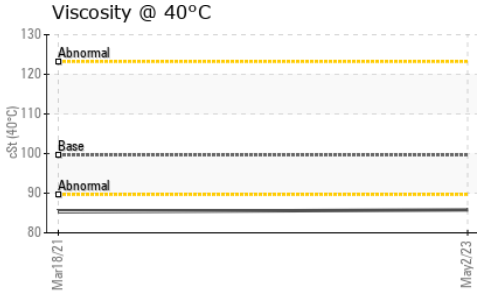
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	32	24	---
Chromium	ppm	ASTM D5185(m)	>10	0	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		2	<1	---
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	---
Lead	ppm	ASTM D5185(m)	>15	<1	<1	---
Copper	ppm	ASTM D5185(m)	>80	2	1	---
Tin	ppm	ASTM D5185(m)		0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	328	313	311	---
Barium	ppm	ASTM D5185(m)	1	5	2	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	3	2	---
Calcium	ppm	ASTM D5185(m)	7	10	9	---
Phosphorus	ppm	ASTM D5185(m)	1145	1350	1214	---
Zinc	ppm	ASTM D5185(m)	3	10	9	---
Sulfur	ppm	ASTM D5185(m)	17909	21765	21817	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

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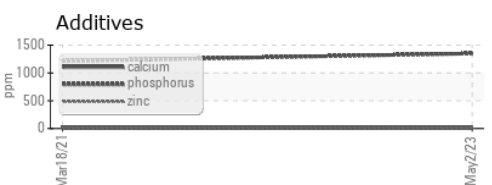
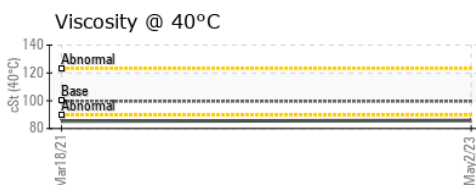
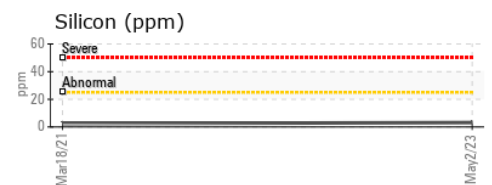
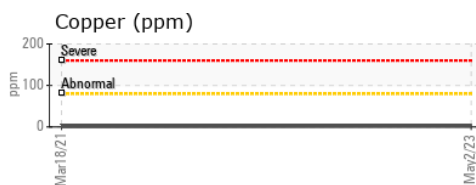
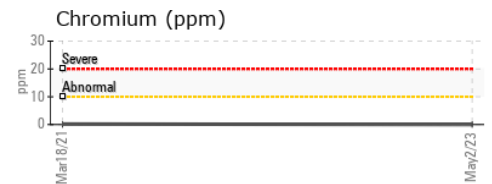
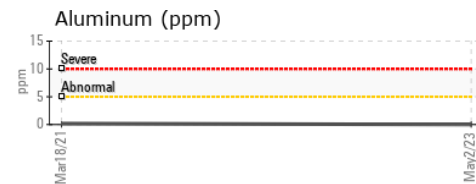
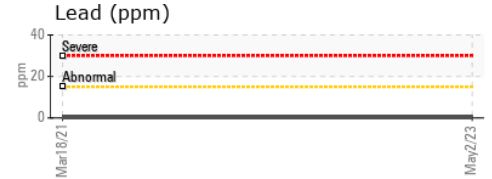
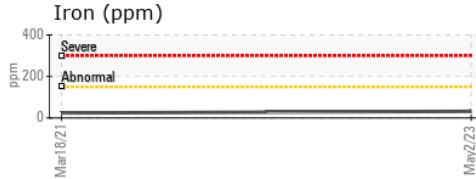
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Bottom		no image

GRAPHS



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