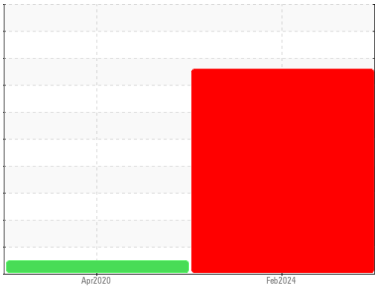
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
6020
Component
Differential
Fluid
SAE 75W140 (20 LTR)

DIAGNOSIS

▲ Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

▲ Wear

Usure des engrenages. Le très haut indice ferreux (PQ) indique la présence d'une usure importante.

▲ Contamination

Concentration modérée de saleté dans l`huile. Une grande quantité de saleté a provoqué une usure abrasive du composant.

Fluid Condition

Le AN est acceptable pour ce fluide. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0079378**	PC0026703	---
Sample Date		Client Info		**20 Feb 2024**	05 Apr 2020	---
Machine Age	kms	Client Info		**595957**	0	---
Oil Age	kms	Client Info		**595957**	118280	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**SEVERE**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ **2570**	---	---
Iron	ppm	ASTM D5185(m)	>500	▲ **661**	344	---
Chromium	ppm	ASTM D5185(m)	>10	**6**	2	---
Nickel	ppm	ASTM D5185(m)	>10	▲ **14**	2	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)		**0**	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	**2**	<1	---
Lead	ppm	ASTM D5185(m)	>25	**0**	0	---
Copper	ppm	ASTM D5185(m)	>100	**10**	2	---
Tin	ppm	ASTM D5185(m)	>10	**0**	0	---
Antimony	ppm	ASTM D5185(m)	>5	▲ **264**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

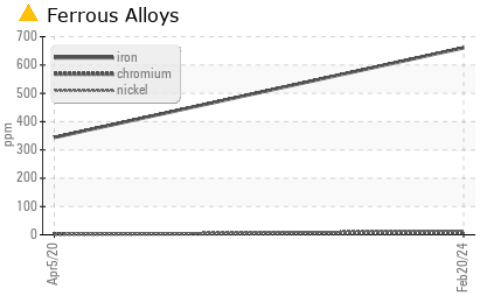
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**8**	12	---
Barium	ppm	ASTM D5185(m)		**0**	0	---
Molybdenum	ppm	ASTM D5185(m)		**0**	<1	---
Manganese	ppm	ASTM D5185(m)		**4**	4	---
Magnesium	ppm	ASTM D5185(m)		**4**	3	---
Calcium	ppm	ASTM D5185(m)		**35**	22	---
Phosphorus	ppm	ASTM D5185(m)		**180**	931	---
Zinc	ppm	ASTM D5185(m)		**2**	18	---
Sulfur	ppm	ASTM D5185(m)		**16905**	23924	---
Lithium	ppm	ASTM D5185(m)		**1**	4	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	▲ **233**	13	---
Sodium	ppm	ASTM D5185(m)		**12**	33	---
Potassium	ppm	ASTM D5185(m)	>20	**1**	<1	---

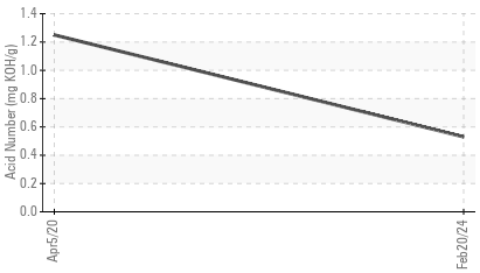
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.53**	1.25	---

OIL ANALYSIS REPORT

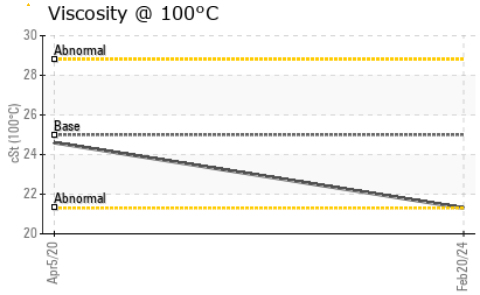
Ferrous Alloys



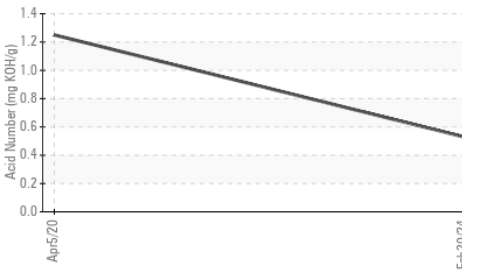
Acid Number



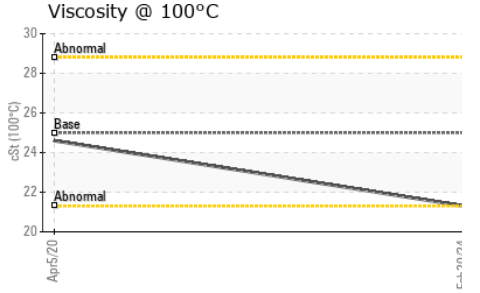
Viscosity @ 100°C



Acid Number

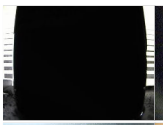


Viscosity @ 100°C



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**	MODER	---
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*	>.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	190	**134**	191	---
Visc @ 100°C	cSt	ASTM D7279(m)	25.0	**21.3**	24.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	163	**185**	159	---

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

GRAPHS

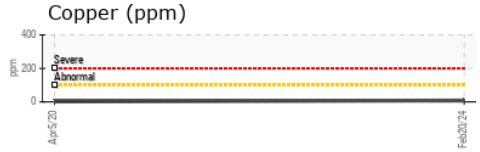
Iron (ppm)

Lead (ppm)

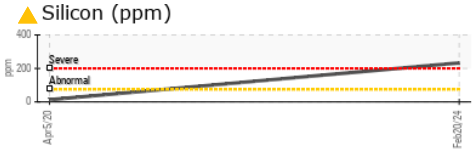
Aluminum (ppm)

Chromium (ppm)

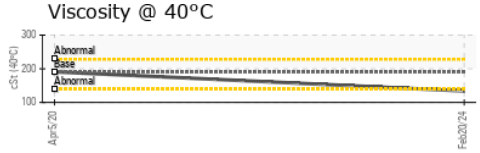
Copper (ppm)



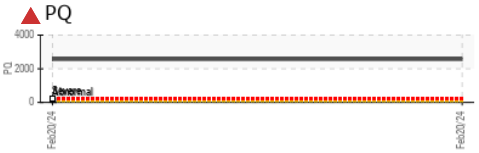
Silicon (ppm)



Viscosity @ 40°C



PQ



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0079378 **Received** : 20 Mar 2024
Lab Number : 02623500 **Tested** : 21 Mar 2024
Unique Number : 5748619 **Diagnosed** : 21 Mar 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PQ, TAN Man, VI)

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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