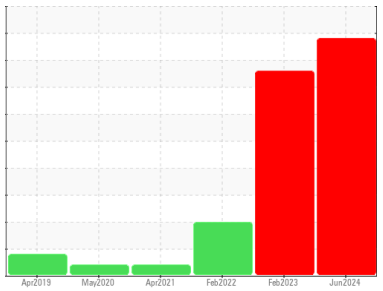
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
MGF [02642444]
Machine Id
LINK BELT 350X4 17-158 (S/N LBX350Q7NHHEX1371)
Component
Hydraulic System
Fluid
PANOLIN HLP SYNTH 46 (350 LTR)

DIAGNOSIS

Recommendation
Nous vous recommandons de vérifier la source de l`infiltration d`eau. Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous suggérons de confirmer les résultats de l'analyse avant toute action importante de maintenance soit entreprise. Indiquez sur le formulaire d'échantillonnage (SIF-sample information form) qu'il s'agit d'un ré-échantillonnage. L'indice d'acidité (AN) indique que votre fluide approche de sa fin de vie utile, veuillez échantillonner à intervalles rapprochées de 250 heures.

Wear
Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

Contamination
Il y a une faible concentration (<5.0%) d'huile minérale présente dans le fluide. Concentration modérée d`eau dans l`huile. La propreté du système est acceptable pour votre objectif de propreté ISO 4406.

Fluid Condition
Le niveau de AN est supérieur à la limite recommandée. l`huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0922691**	WC	WC
Sample Date		Client Info		**14 Jun 2024**	22 Feb 2023	14 Feb 2022
Machine Age	hrs	Client Info		**8830**	5000	2600
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	0	0
Iron	ppm	ASTM D5185(m)	>20	▲ **99**	▲ 79	▲ 58
Chromium	ppm	ASTM D5185(m)	>10	**6**	3	2
Nickel	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**<1**	<1	<1
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>10	**3**	2	1
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>75	**9**	9	5
Tin	ppm	ASTM D5185(m)	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

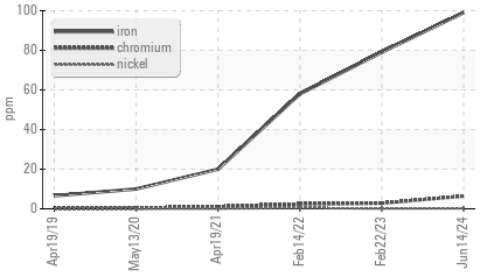
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**2**	<1	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	<1
Manganese	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	**1**	<1	<1
Calcium	ppm	ASTM D5185(m)	0	**3**	<1	4
Phosphorus	ppm	ASTM D5185(m)	1700	**1315**	1481	1282
Zinc	ppm	ASTM D5185(m)	0	**190**	154	136
Sulfur	ppm	ASTM D5185(m)	1350	**1400**	1409	1375
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**6**	5	5
Sodium	ppm	ASTM D5185(m)		**4**	3	2
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	4
Water	%	ASTM D6304*	>0.05	▲ **0.084**	▲ 0.060	---
ppm Water	ppm	ASTM D6304*	>500	▲ **844**	▲ 604.9	---

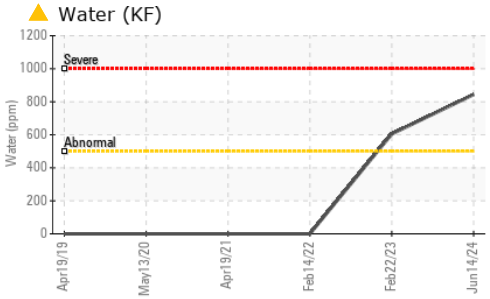
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	---
Nitration	Abs/cm	ASTM D7624*		**5.1**	5.0	---
Sulfation	Abs/.1mm	ASTM D7415*		**158.9**	174.1	---
Mineral Oil Content	%	ASTM D7418*	<5.0%	**<5.0**	<5.0	0.0

OIL ANALYSIS REPORT

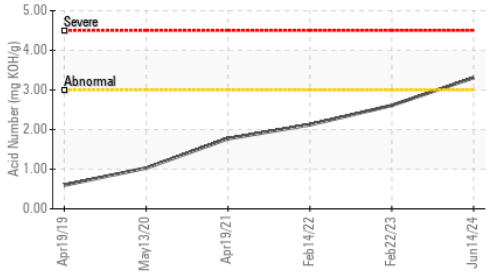
Ferrous Alloys



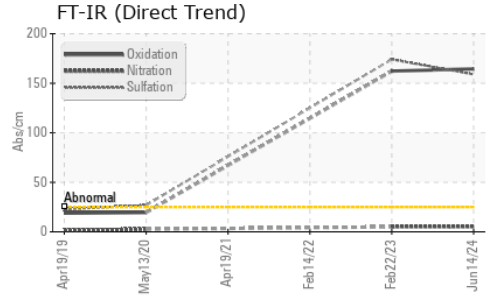
Water (KF)



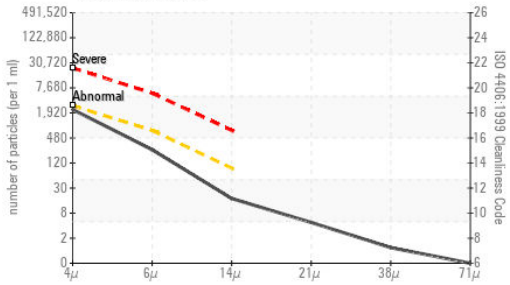
Acid Number



FT-IR (Direct Trend)



Particle Count

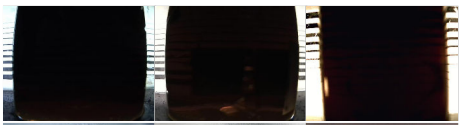


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**2027**	1772	▲ 36286
Particles >6µm		ASTM D7647	>640	**221**	370	▲ 2314
Particles >14µm		ASTM D7647	>80	**15**	32	16
Particles >21µm		ASTM D7647	>20	**4**	11	1
Particles >38µm		ASTM D7647	>4	**1**	2	0
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**18/15/11**	18/16/12	▲ 22/18/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**164.5**	162.2	---
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ **3.31**	2.61	2.12

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.0	**44.9**	43.2	46.5
Visc @ 100°C	cSt	ASTM D7279(m)	8.1	**8.0**	8	8.2
Viscosity Index (VI)	Scale	ASTM D2270*	146	**151**	159	151

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
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ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0922691 **Received** : 18 Jun 2024
Lab Number : 02642735 **Tested** : 19 Jun 2024
Unique Number : 5800274 **Diagnosed** : 24 Jun 2024 - Bill Quesnel
Test Package : MOB 2 (Additional Tests: PQ, TAN Man)

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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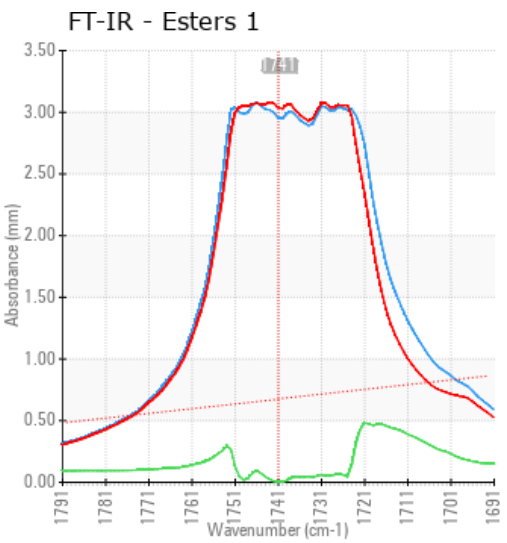
MINERAL OIL CONTENT REPORT

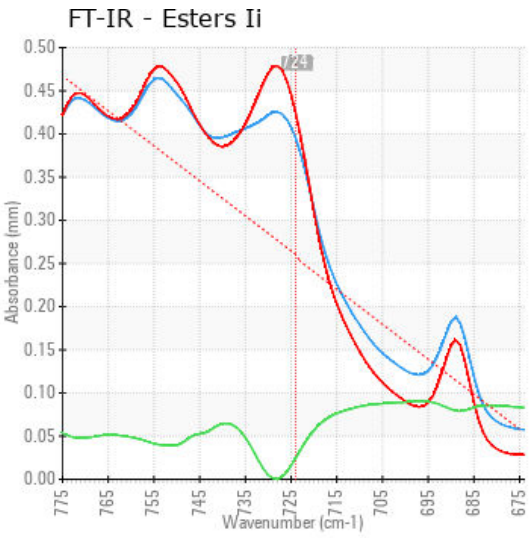
PASS

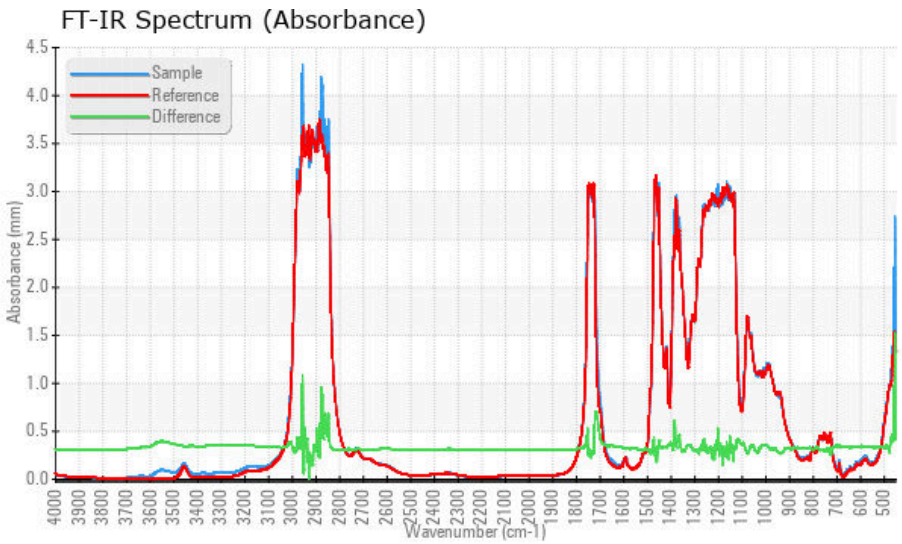
Area
MGF [02642444]
Machine Id
LINK BELT 350X4 17-158 (S/N LBX350Q7NHHEX1371)
Component
Hydraulic System
Fluid
PANOLIN HLP SYNTH 46 (350 LTR)

SPECTRAL ANALYSIS

		method	limit/base	current	history1	history2
Zinc	ppm	ASTM D5185(m)	0	**190**	154	136
Mineral Oil Content	%	ASTM D7418*	<5.0%	**<5.0**	<5.0	0.0







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