



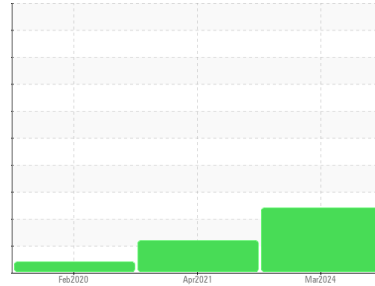
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
GROUPE EGC [02622500]
 Machine Id
LINK BELT 145X4 205-18 (S/N LBX145Q7NHHEX1166)
 Component
Hydraulic System
 Fluid
PANOLIN HLP SYNTH 46 (158 LTR)



DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filtres pour des points d'entrée des contaminants. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessiccant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous recommandons le remplacement des filtres de ce composant. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l'huile. Il y a une faible concentration (<5.0%) d'huile minérale présente dans le fluide. La teneur en eau est négligeable. Le code de propreté du système est beaucoup plus haut que la limite acceptable pour votre objectif de propreté ISO 4406.

Fluid Condition

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC	WC	WC
Sample Date	Client Info	12 Mar 2024	15 Apr 2021	18 Feb 2020
Machine Age	hrs Client Info	3815	1831	915
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	SEVERE	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	7	6	1
Chromium	ppm ASTM D5185(m) >10	<1	<1	<1
Nickel	ppm ASTM D5185(m) >10	0	<1	<1
Titanium	ppm ASTM D5185(m)	0	<1	1
Silver	ppm ASTM D5185(m)	0	<1	0
Aluminum	ppm ASTM D5185(m) >10	<1	<1	0
Lead	ppm ASTM D5185(m) >10	<1	<1	0
Copper	ppm ASTM D5185(m) >75	2	2	<1
Tin	ppm ASTM D5185(m) >10	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	<1
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	1	2	1
Barium	ppm ASTM D5185(m) 0	0	0	<1
Molybdenum	ppm ASTM D5185(m) 0	0	0	0
Manganese	ppm ASTM D5185(m) 0	0	<1	0
Magnesium	ppm ASTM D5185(m) 0	1	1	<1
Calcium	ppm ASTM D5185(m) 0	9	12	11
Phosphorus	ppm ASTM D5185(m) 1700	1480	1392	1557
Zinc	ppm ASTM D5185(m) 0	39	27	13
Sulfur	ppm ASTM D5185(m) 1350	1409	1339	1333
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

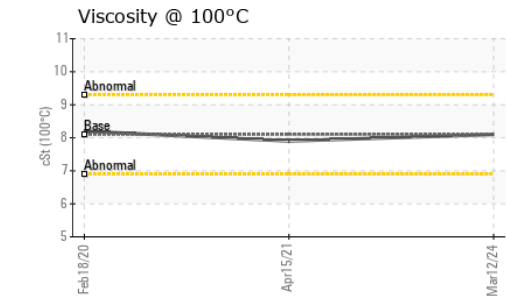
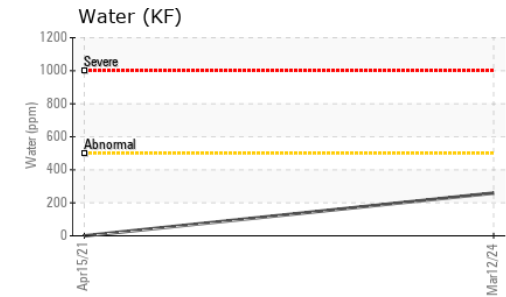
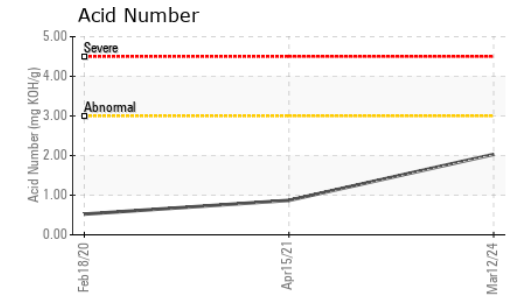
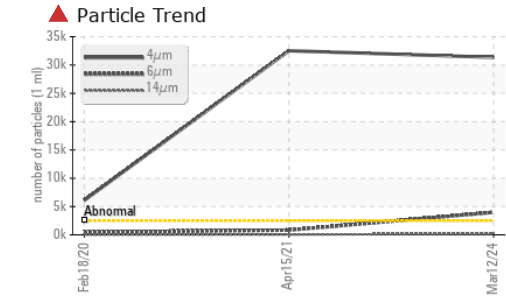
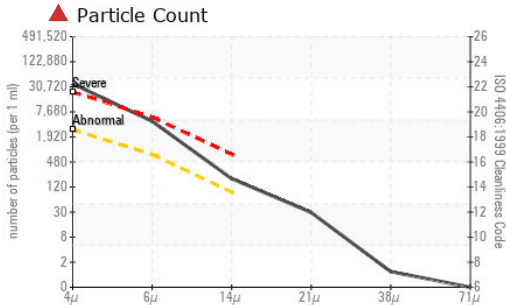
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	1	2	<1
Sodium	ppm ASTM D5185(m)	1	2	0
Potassium	ppm ASTM D5185(m) >20	<1	<1	<1
Water	% ASTM D6304* >0.05	0.025	---	---
ppm Water	ppm ASTM D6304* >500	259	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	---	0
Nitration	Abs/cm ASTM D7624*	4.3	---	2.4
Sulfation	Abs/.1mm ASTM D7415*	158.0	---	25.5
Mineral Oil Content	% ASTM D7418* <5.0%	<5.0	2.5	4.9



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02622508
Unique Number : 5747627
Test Package : MOB 2 (Additional Tests: TAN Man)

Received : 15 Mar 2024
Tested : 18 Mar 2024
Diagnosed : 18 Mar 2024 - Kevin Marson

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.

Envirolin Canada
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 Quebec, QC
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 Contact: Patrick Levesque
 patrick.levesque@envirolin.com
 T: (418)623-1216
 F: (418)660-8889

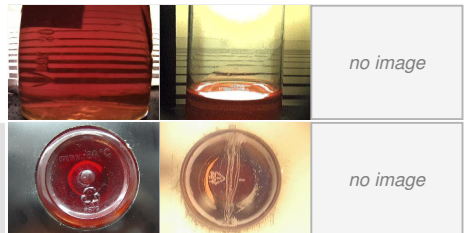
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 31355	▲ 32525	▲ 6098
Particles >6µm	ASTM D7647	>640	▲ 3970	● 828	464
Particles >14µm	ASTM D7647	>80	▲ 168	58	25
Particles >21µm	ASTM D7647	>20	26	12	7
Particles >38µm	ASTM D7647	>4	1	1	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 22/19/15	▲ 22/17/13	▲ 20/16/12

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	155.8	---	18.5
Acid Number (AN)	mg KOH/g	ASTM D974*	2.03	0.87	0.523

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*	>0.05	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.0	45.6	45.4
Visc @ 100°C	cSt	ASTM D7279(m)	8.1	8.1	7.9
Viscosity Index (VI)	Scale	ASTM D2270*	146	151	145

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





MINERAL OIL CONTENT REPORT

PASS

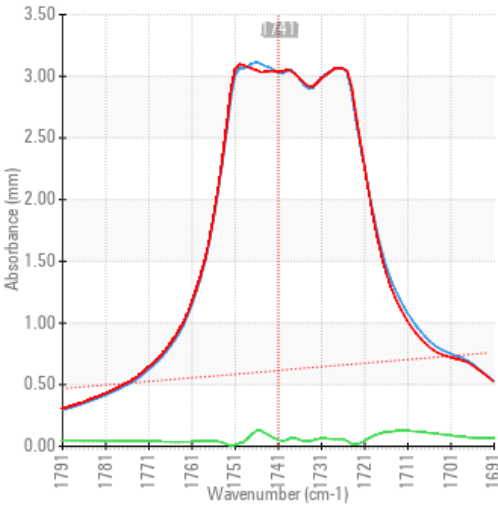


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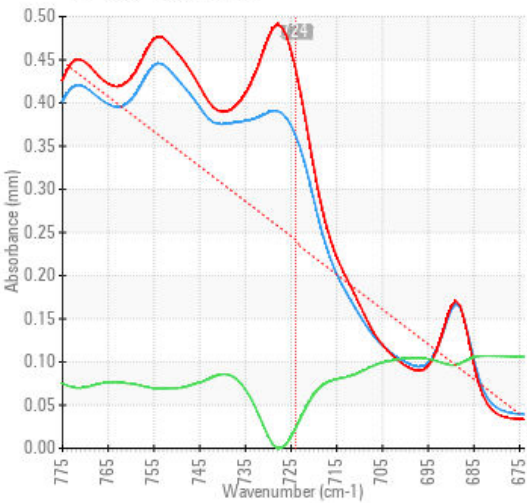
SPECTRAL ANALYSIS

		method	limit/base	current	history1	history2
Zinc	ppm	ASTM D5185(m)	0	39	27	13
Mineral Oil Content	%	ASTM D7418*	<5.0%	<5.0	2.5	4.9

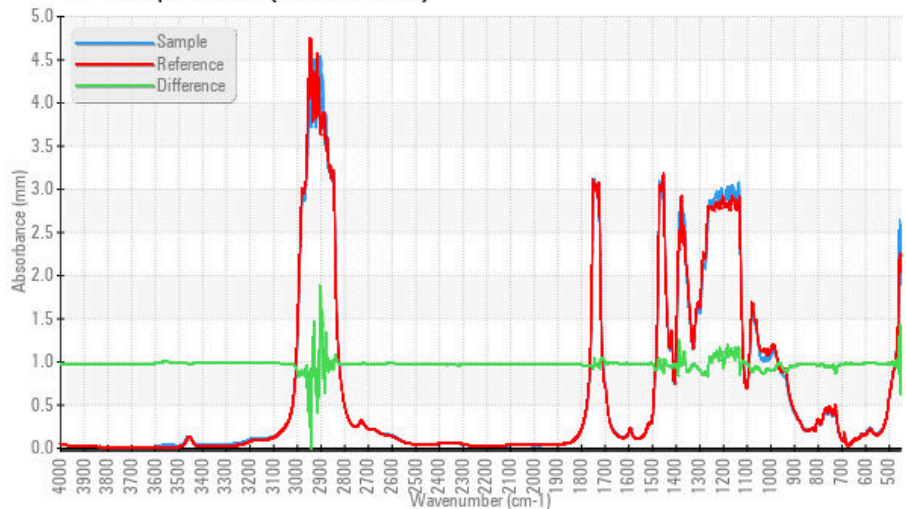
FT-IR - Esters I



FT-IR - Esters II



FT-IR Spectrum (Absorbance)



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