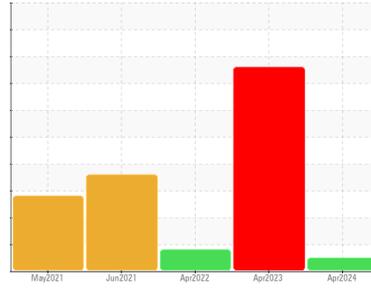




OIL ANALYSIS REPORT

Area
[02630413]
 Machine Id
CASE CX-17 LADP35
 Component
Hydraulic System
 Fluid
SINTO MULTIGRADE BIO (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Il y a une faible concentration (1.1%) d'huile minérale présente dans le fluide. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PP	PP	PP
Sample Date	Client Info		12 Apr 2024	20 Apr 2023	19 Apr 2022
Machine Age	hrs	Client Info	815	553	270
Oil Age	hrs	Client Info	815	553	270
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	SEVERE	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >65	4	6	4
Chromium	ppm	ASTM D5185(m) >6	0	0	0
Nickel	ppm	ASTM D5185(m) >10	0	0	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >5	<1	<1	0
Lead	ppm	ASTM D5185(m) >45	0	<1	<1
Copper	ppm	ASTM D5185(m) >120	1	2	3
Tin	ppm	ASTM D5185(m) >4	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	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) 0.7	<1	<1	<1
Barium	ppm	ASTM D5185(m) 0.0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0.0	0	0	<1
Manganese	ppm	ASTM D5185(m) 0.0	<1	1	<1
Magnesium	ppm	ASTM D5185(m) 0.2	0	<1	0
Calcium	ppm	ASTM D5185(m) 6.5	7	6	7
Phosphorus	ppm	ASTM D5185(m) 1332	1146	1197	1139
Zinc	ppm	ASTM D5185(m) 4.6	18	36	23
Sulfur	ppm	ASTM D5185(m) 2499	2268	2483	2308
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

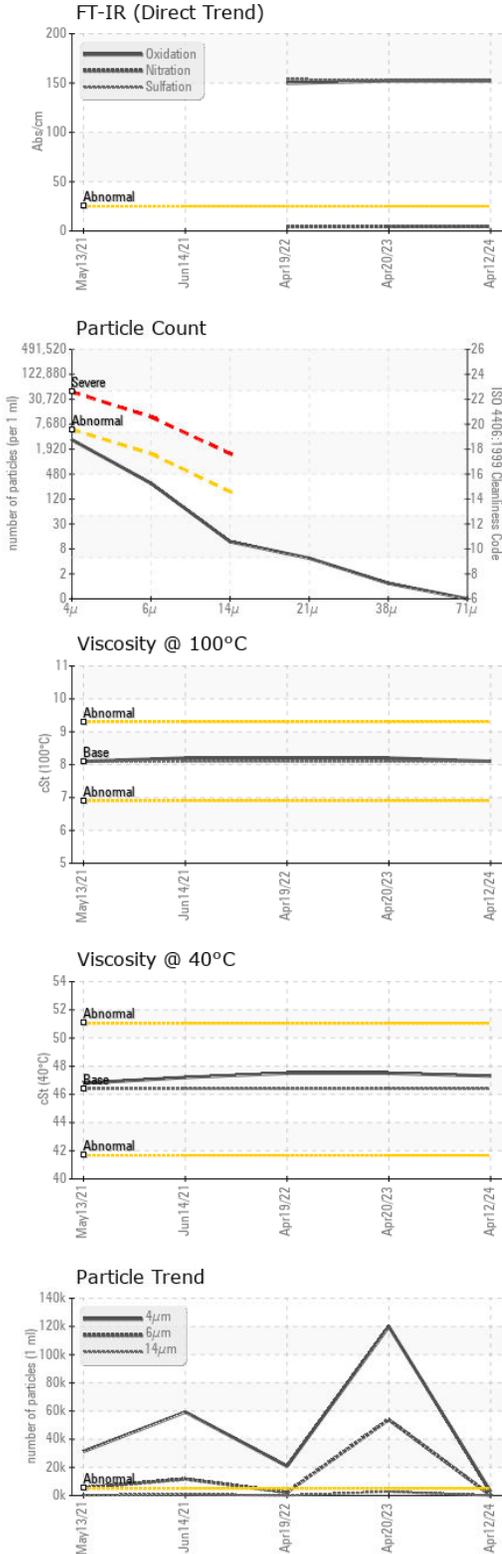
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	6	8	8
Sodium	ppm	ASTM D5185(m)	<1	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624*	4.6	4.5	4.4
Sulfation	Abs/.1mm	ASTM D7415*	152.5	152.5	153.8
Mineral Oil Content	%	ASTM D7418*	<5.0%	0.0	0.0



OIL ANALYSIS REPORT



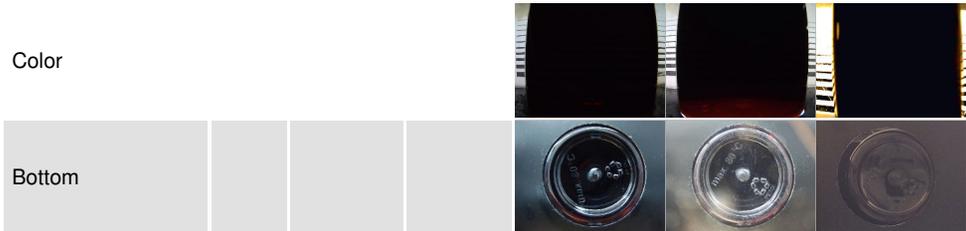
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2815	▲ 119922	▲ 20851
Particles >6µm	ASTM D7647	>1300	253	▲ 53840	● 2216
Particles >14µm	ASTM D7647	>160	10	▲ 2724	95
Particles >21µm	ASTM D7647	>40	4	▲ 411	15
Particles >38µm	ASTM D7647	>10	1	7	0
Particles >71µm	ASTM D7647	>3	0	1	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/15/10	▲ 24/23/19	▲ 22/18/14

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	152.2	152.2	149.8

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	NONE
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*	>0.1	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	47.3	47.5	47.5
Visc @ 100°C	cSt	ASTM D7279(m)	8.1	8.1	8.2	8.2
Viscosity Index (VI)	Scale	ASTM D2270*	148	144	146	146

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02630412
Unique Number : 5763544
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, Mineral Oil Content, VI)

Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 23 Apr 2024 - Bill Quesnel

SINTO INC
 3750, 14 AVE WEST
 SAINT-GEORGES DE BEAUCES, QC
 CA G5Y 8E3
 Contact: Jimmie Roy
 j.roy@sinto.ca
 T: (418)227-6442
 F: (418)228-5592

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.



MINERAL OIL CONTENT REPORT

PASS

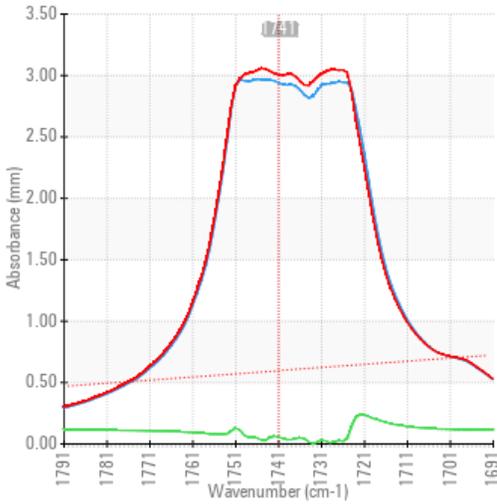


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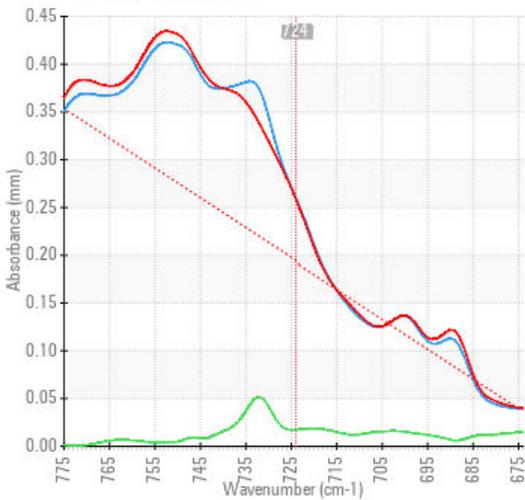
SPECTRAL ANALYSIS

		method	limit/base	current	history1	history2
Zinc	ppm	ASTM D5185(m)	4.6	18	36	23
Mineral Oil Content	%	ASTM D7418*	<5.0%	1.1	0.0	0.0

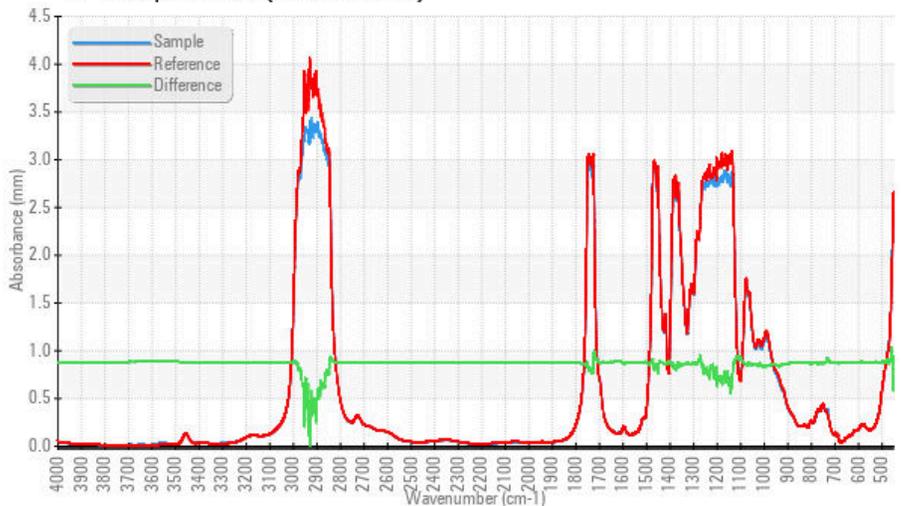
FT-IR - Esters I



FT-IR - Esters II



FT-IR Spectrum (Absorbance)



ISO 17025:2017
 Accredited
 Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02630412
Unique Number : 5763544
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, Mineral Oil Content, VI)

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