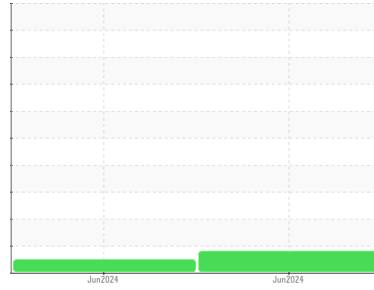


Area
[LOT 244501]
 Machine Id
SINO BOOM
 Component
Hydraulic System
 Fluid
MULTIGRADE 32 (--- GAL)



DIAGNOSIS

Recommendation
 Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Le fluide était spécifié comme MULTIGRADE 32, toutefois, une comparaison avec d'autres fluides indiqua que ce fluide est du ISO 46 Environmental Oil. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

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

Contamination
 La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Fluid Condition
 La viscosité de l'échantillon se situe dans la portée de l'ISO 46; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0087970	PC0087971	---
Sample Date	Client Info		19 Jun 2024	19 Jun 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	407	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	---

WEAR METALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	0	<1	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	---
Lead	ppm	ASTM D5185(m)	>20	0	0	---
Copper	ppm	ASTM D5185(m)	>20	0	2	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

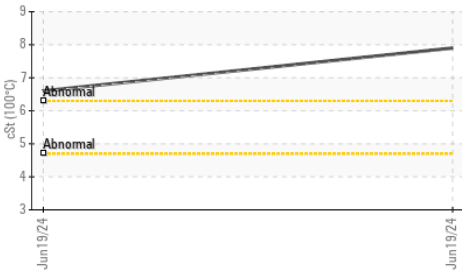
ADDITIVES	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		<1	<1	---
Calcium	ppm	ASTM D5185(m)		<1	48	---
Phosphorus	ppm	ASTM D5185(m)		564	287	---
Zinc	ppm	ASTM D5185(m)		1	368	---
Sulfur	ppm	ASTM D5185(m)		1266	667	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	0	0	---
Sodium	ppm	ASTM D5185(m)		0	0	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

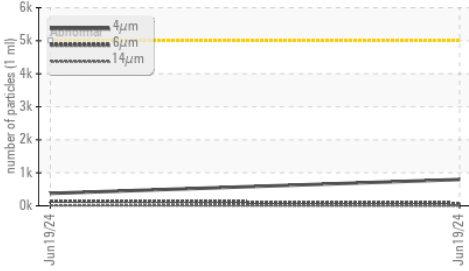
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	377	797	---
Particles >6µm	ASTM D7647	>1300	140	69	---
Particles >14µm	ASTM D7647	>160	14	6	---
Particles >21µm	ASTM D7647	>40	4	2	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/14/11	17/13/10	---

OIL ANALYSIS REPORT

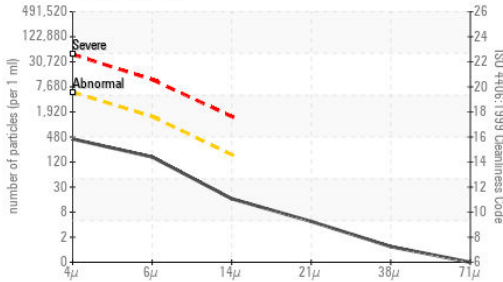
▲ Viscosity @ 100°C



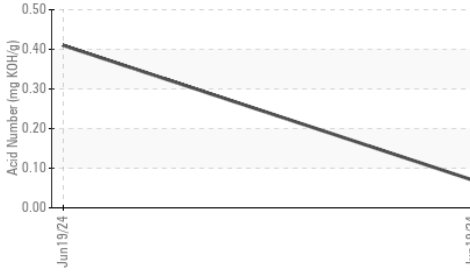
Particle Trend



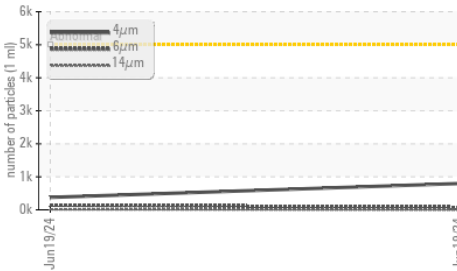
Particle Count



Acid Number



Particle Trend



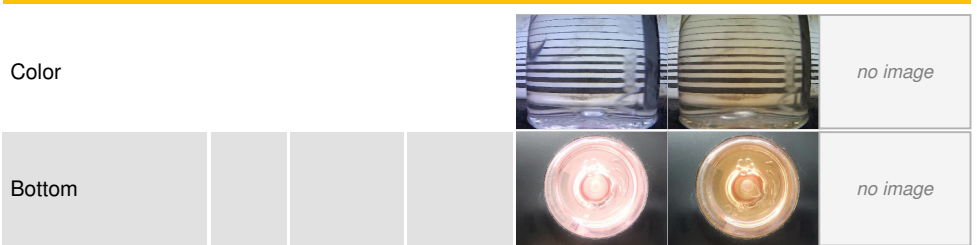
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.07	0.41	---
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)	▲ 43.5	36.9	---
Visc @ 100°C	cSt ASTM D7279(m)	▲ 7.9	6.6	---
Viscosity Index (VI)	Scale ASTM D2270*	154	134	---

SAMPLE IMAGES

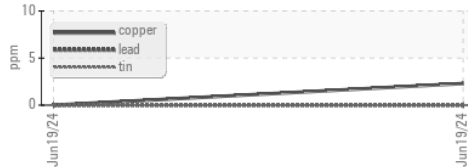


GRAPHS

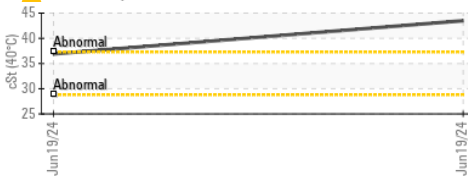
Ferrous Alloys



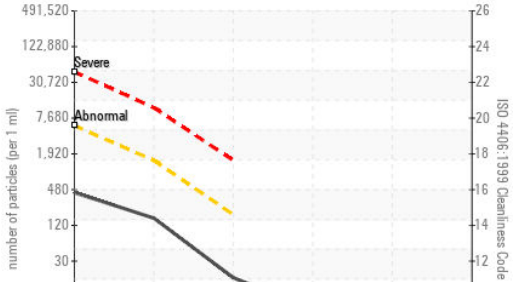
Non-ferrous Metals



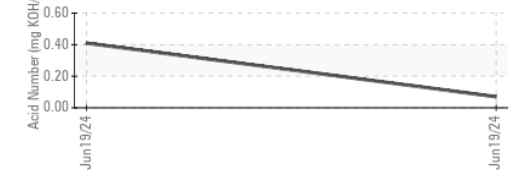
▲ Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0087970
Lab Number : 02645269
Unique Number : 5802808
Test Package : IND 2 (Additional Tests: KV100, VI)

HUILES DESROCHES INC.
 915 RUE PHILIPPE-PARADIS, LOCAL 115
 QUEBEC, QC
 CA G1N 4E3

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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 david.labrecque@groupe-desroches.ca

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