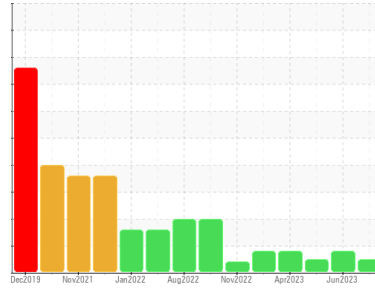




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
PRESS 4

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (9000 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service (unconfirmed).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC	WC	WC
Sample Date	Client Info	05 Sep 2023	13 Jun 2023	26 Apr 2023
Machine Age	mths Client Info	0	0	0
Oil Age	mths Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ATTENTION	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >20	11	▲ 11	2
Chromium ppm	ASTM D5185(m) >20	1	2	0
Nickel ppm	ASTM D5185(m) >20	0	<1	<1
Titanium ppm	ASTM D5185(m)	0	0	0
Silver ppm	ASTM D5185(m)	0	0	0
Aluminum ppm	ASTM D5185(m) >20	0	<1	<1
Lead ppm	ASTM D5185(m) >20	<1	<1	1
Copper ppm	ASTM D5185(m) >20	5	5	12
Tin ppm	ASTM D5185(m) >20	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) 5	<1	<1	<1
Barium ppm	ASTM D5185(m) 5	0	0	0
Molybdenum ppm	ASTM D5185(m) 5	0	0	<1
Manganese ppm	ASTM D5185(m)	<1	<1	0
Magnesium ppm	ASTM D5185(m) 25	2	2	2
Calcium ppm	ASTM D5185(m) 200	51	50	57
Phosphorus ppm	ASTM D5185(m) 300	355	356	378
Zinc ppm	ASTM D5185(m) 370	394	397	429
Sulfur ppm	ASTM D5185(m) 2500	747	738	894
Lithium ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >15	<1	<1	0
Sodium ppm	ASTM D5185(m)	2	1	<1
Potassium ppm	ASTM D5185(m) >20	1	2	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	2643	2139	4040
Particles >6µm	ASTM D7647 >1300	358	202	999
Particles >14µm	ASTM D7647 >160	20	31	71
Particles >21µm	ASTM D7647 >40	6	8	21
Particles >38µm	ASTM D7647 >10	1	1	2
Particles >71µm	ASTM D7647 >3	0	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/16/11	18/15/12	19/17/13

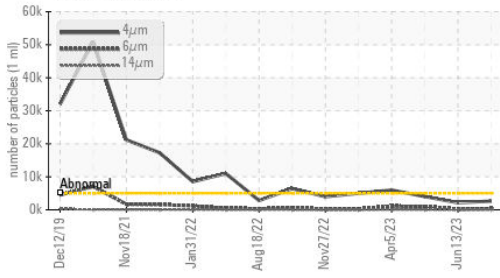
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974* 0.57	0.31	0.39	0.34

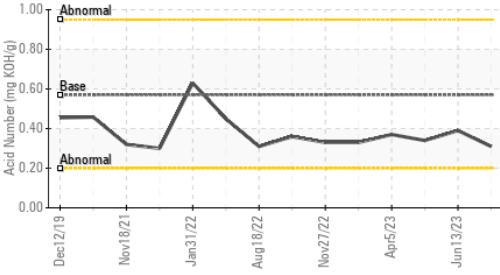


OIL ANALYSIS REPORT

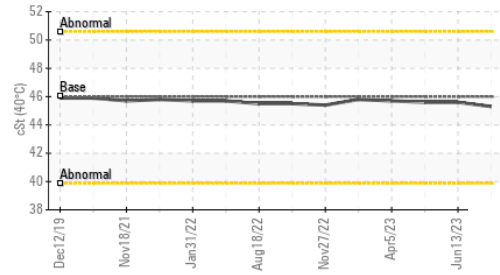
Particle Trend



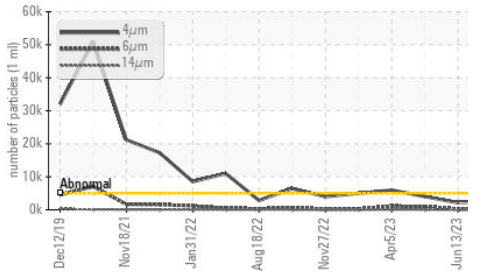
Acid Number



Viscosity @ 40°C



Particle Trend

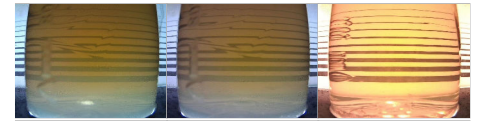


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.3	45.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

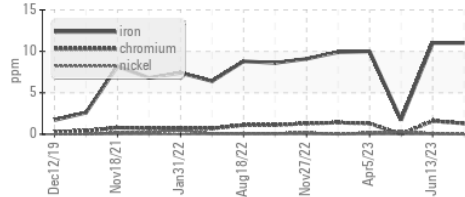


Bottom

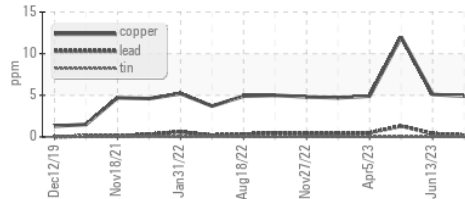


GRAPHS

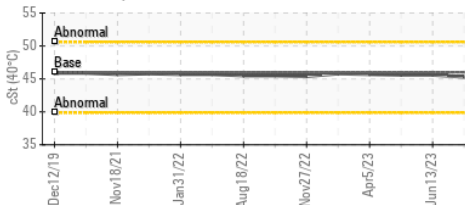
Ferrous Alloys



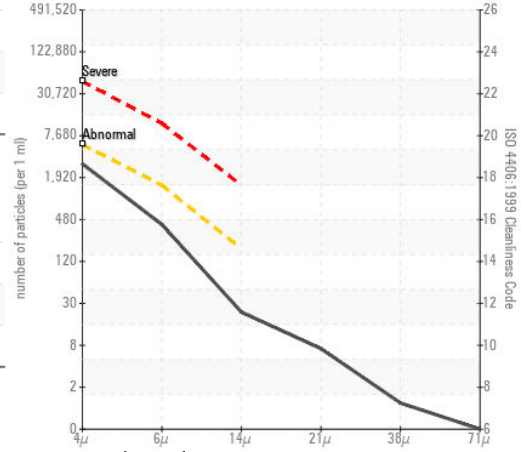
Non-ferrous Metals



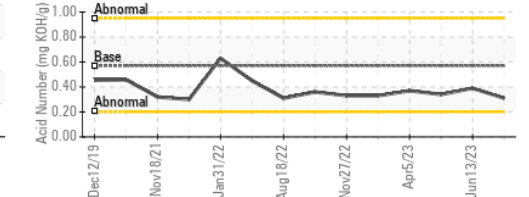
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02580705
Unique Number : 5633765
Test Package : IND 2

Hydro Extrusion North
 5675 Kennedy Road
 Mississauga, ON
 CA L4Z 2H9
 Contact: Harsh Murria
 Harsh.murria@hydro.com
 T: (819)462-0479
 F: (866)462-6478

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.