IND II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HYDROSTATIC TEST STAND
Component
Hydraulic System
Fluid
RADCOLUBE RHP5606 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

Copper and iron ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

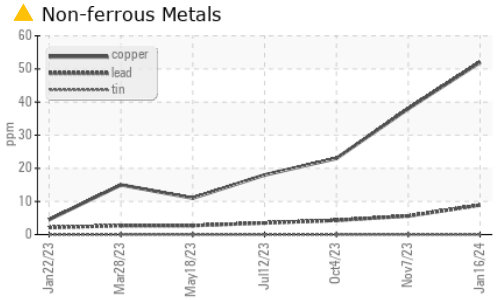
CONTAMINATION

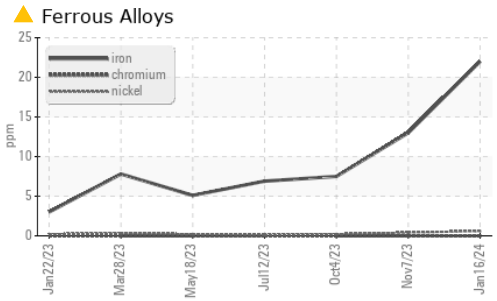
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

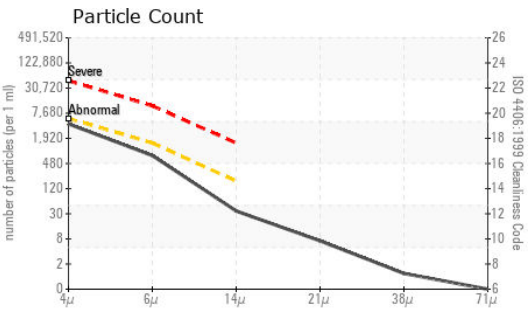
FLUID CONDITION

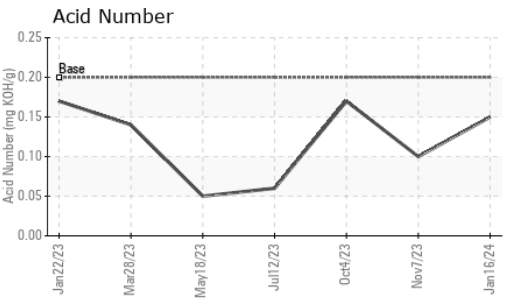
The oil viscosity is higher than typical. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

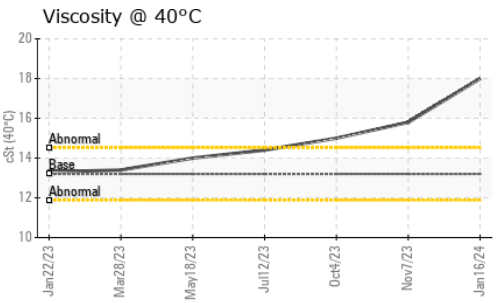
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0838486	WC0838483	WC0782055
Sample Date		Client Info		16 Jan 2024	07 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 22	13	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	9	6	4
Copper	ppm	ASTM D5185(m)	>20	▲ 52	▲ 38	▲ 23
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	▲ VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	5	2	1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	3712	2473	▲ 5857
Particles >6µm		ASTM D7647	>1300	653	634	▲ 1525
Particles >14µm		ASTM D7647	>160	31	30	99
Particles >21µm		ASTM D7647	>40	6	6	23
Particles >38µm		ASTM D7647	>10	1	2	2
Particles >71µm		ASTM D7647	>3	0	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/12	18/16/12	▲ 20/18/14
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
Sodium	ppm	ASTM D5185(m)		3	2	2
Boron	ppm	ASTM D5185(m)		1	<1	<1
Barium	ppm	ASTM D5185(m)		4	3	2
Molybdenum	ppm	ASTM D5185(m)		<1	0	0
Manganese	ppm	ASTM D5185(m)		2	1	<1
Magnesium	ppm	ASTM D5185(m)		14	8	4
Calcium	ppm	ASTM D5185(m)		21	5	4
Phosphorus	ppm	ASTM D5185(m)		141	99	74
Zinc	ppm	ASTM D5185(m)		143	99	68
Sulfur	ppm	ASTM D5185(m)		463	328	281
Acid Number (AN)	mg KOH/g	ASTM D974*	0.20	0.15	0.10	0.17
Visc @ 40°C	cSt	ASTM D7279(m)	13.2	18.0	15.8	15.0

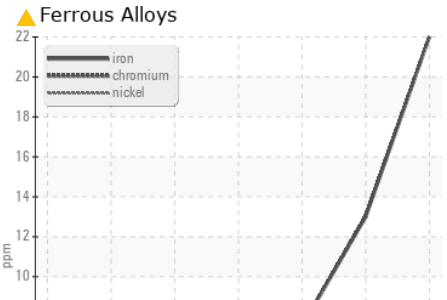


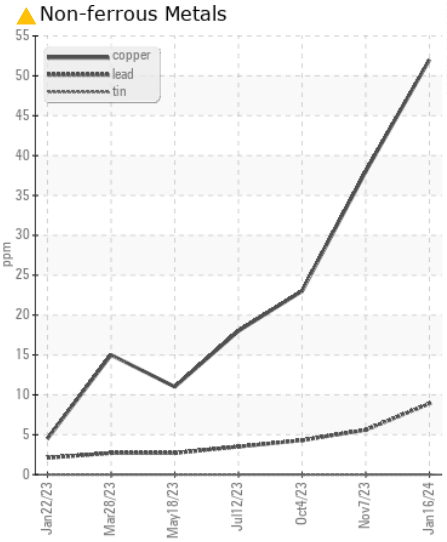


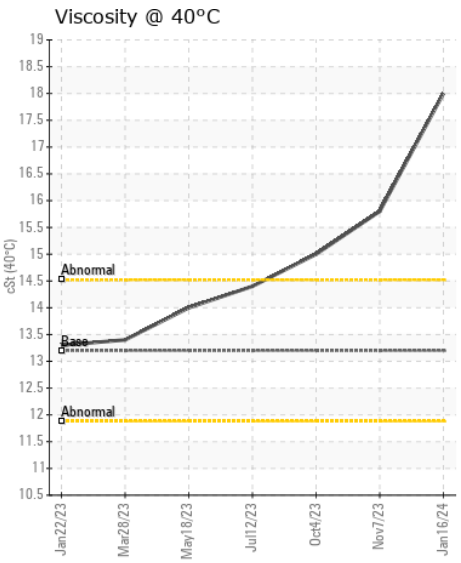


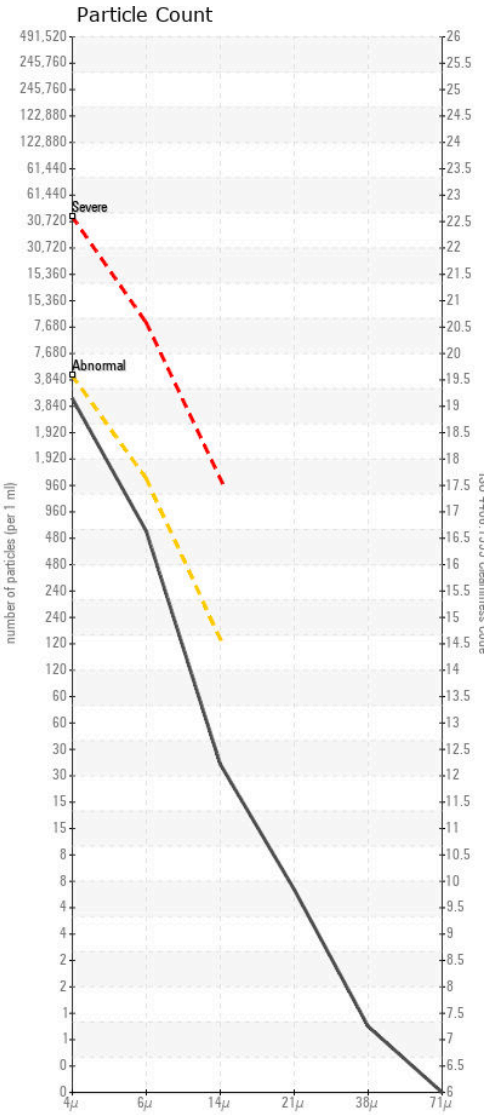


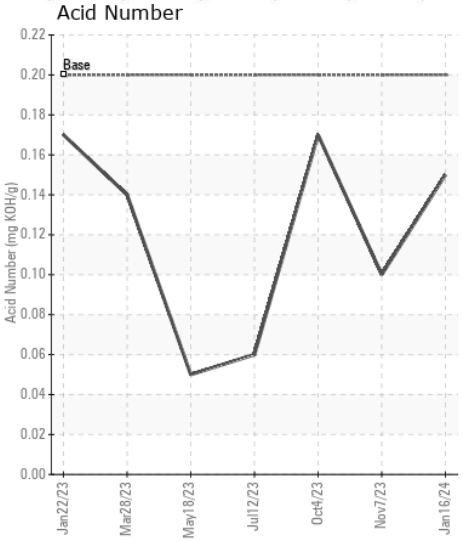












ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0838486	**Recieved**	: 17 Jan 2024
Lab Number	: 02609329	**Diagnosed**	: 18 Jan 2024
Unique Number	: 5710415	**Diagnostician**	: Kevin Marson
Test Package	: IND 2 (Additional Tests: PQ)		

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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