

Area
MICHAUDVILLE

Machine Id
1223

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- 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. Please specify the component make and model with your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

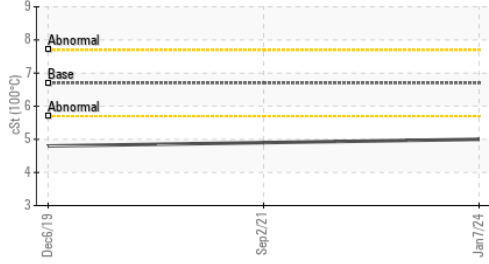
There is no indication of any contamination in the component(unconfirmed).

FLUID CONDITION

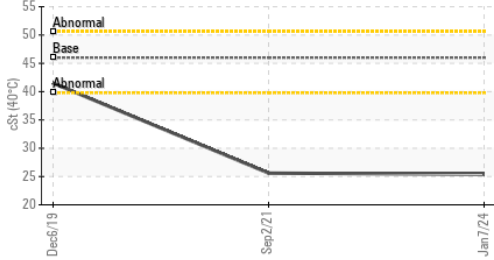
Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083623	PC0054133	PC0021608
Sample Date		Client Info		07 Jan 2024	02 Sep 2021	06 Dec 2019
Machine Age	kms	Client Info		205735	5940	3080
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184*		14	6	14
Iron	ppm	ASTM D5185(m)	>20	▲ 64	▲ 49	▲ 34
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	2	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>75	1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	6	4	2
Potassium	ppm	ASTM D5185(m)	>20	3	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	LIGHT
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*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		6	5	3
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	<1	<1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	25	3	2	2
Calcium	ppm	ASTM D5185(m)	200	78	71	70
Phosphorus	ppm	ASTM D5185(m)	300	307	324	305
Zinc	ppm	ASTM D5185(m)	370	389	393	384
Sulfur	ppm	ASTM D5185(m)	2500	1246	1165	1177
Visc @ 40°C	cSt	ASTM D7279(m)	46	▲ 25.4	▲ 25.6	41.5
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	▲ 5	▲ 4.9	4.8
Viscosity Index (VI)	Scale	ASTM D2270*	97	125	115	---

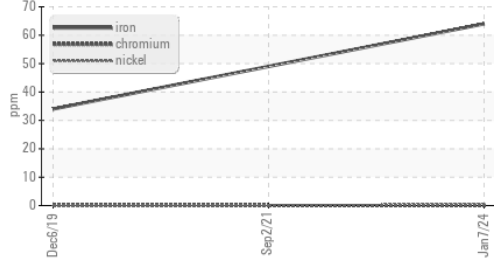
▲ Viscosity @ 100°C



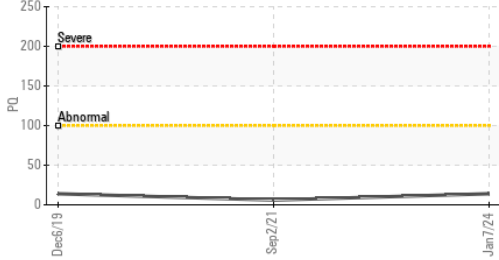
▲ Viscosity @ 40°C



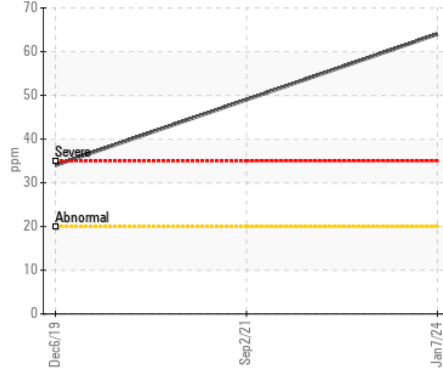
▲ Ferrous Alloys



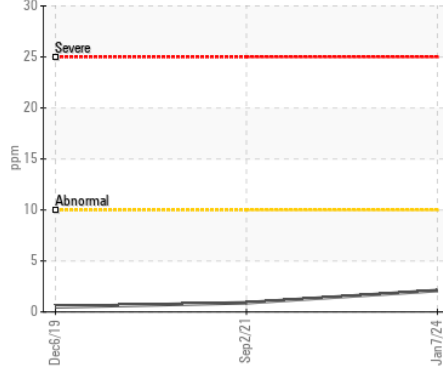
PQ



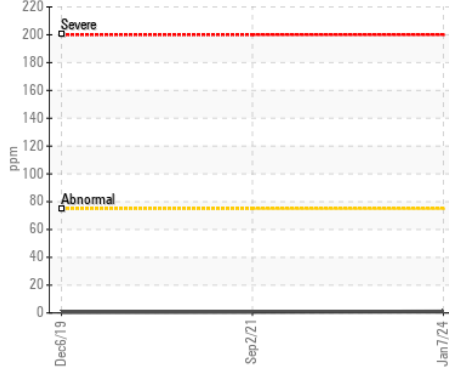
▲ Iron (ppm)



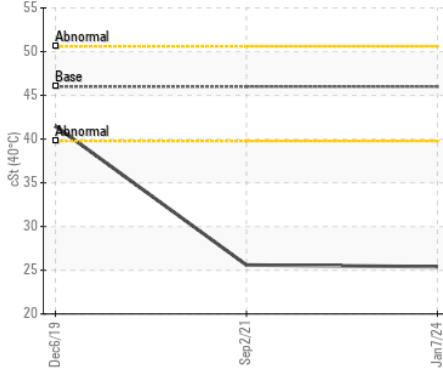
Aluminum (ppm)



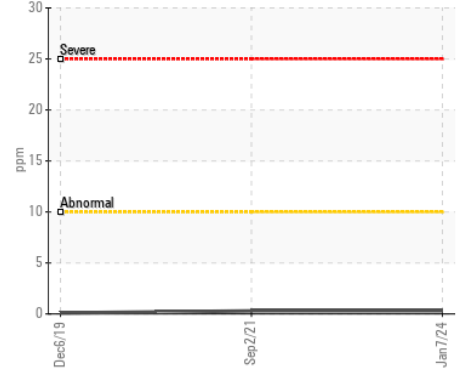
Copper (ppm)



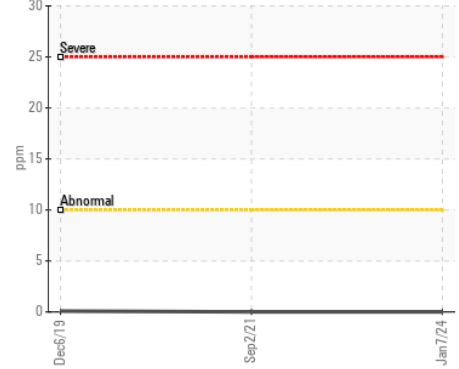
▲ Viscosity @ 40°C



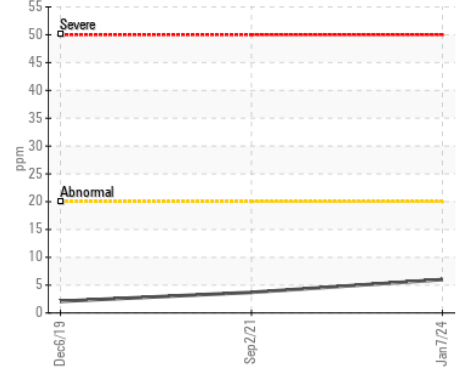
Lead (ppm)



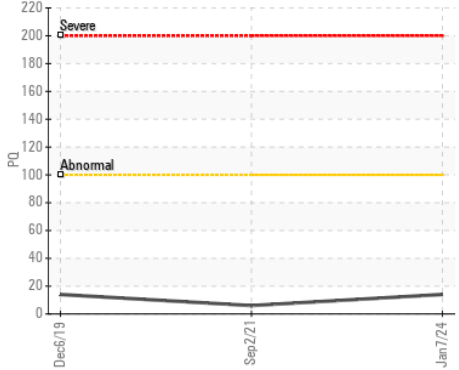
Chromium (ppm)



Silicon (ppm)



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.
Sample No. : PC0083623 **Received** : 08 Jan 2024 270 RUE BRUNET
Lab Number : 02607133 **Diagnosed** : 09 Jan 2024 MONT ST-HILAIRE, QC
Unique Number : 5708219 **Diagnostician** : Kevin Marson CA J3H 0M6
Test Package : MOB 1 (Additional Tests: KV100, PQ, VI) Contact: Martin Trudel

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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F: