



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 3 - Norton

Machine Id
WEINIG MOLDER LINE 5 MOLDER (S/N BV425040)

Component
Hydraulic System

Fluid
CHEVRON HYDRAULIC AW ISO 68 (8 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048621	LEC0048612	LEC0042929
Sample Date		Client Info		15 Jun 2024	01 May 2024	19 Dec 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		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	0	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

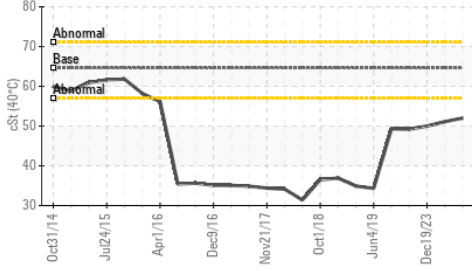
Silicon	ppm	ASTM D5185m	>20	9	6	6
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	---	2488	1776
Particles >6µm		ASTM D7647	>1300	---	219	422
Particles >14µm		ASTM D7647	>160	---	8	41
Particles >21µm		ASTM D7647	>40	---	2	12
Particles >38µm		ASTM D7647	>10	---	0	1
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	18/15/10	18/16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

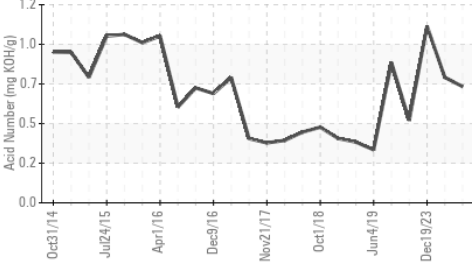
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		4	6	3
Boron	ppm	ASTM D5185m		65	69	81
Barium	ppm	ASTM D5185m		0	0	6
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		11	8	10
Calcium	ppm	ASTM D5185m		2094	2146	2407
Phosphorus	ppm	ASTM D5185m		818	780	852
Zinc	ppm	ASTM D5185m		990	951	1136
Sulfur	ppm	ASTM D5185m		6848	6509	6728
Acid Number (AN)	mg KOH/g	ASTM D8045		0.704	0.76	1.07
Visc @ 40°C	cSt	ASTM D445	64.6	52.0	51.1	50.0

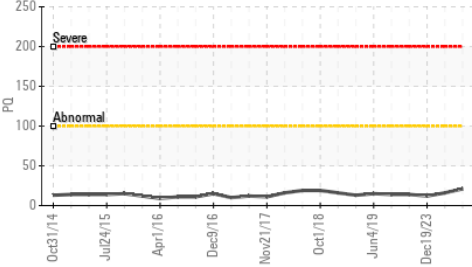
● Viscosity @ 40°C



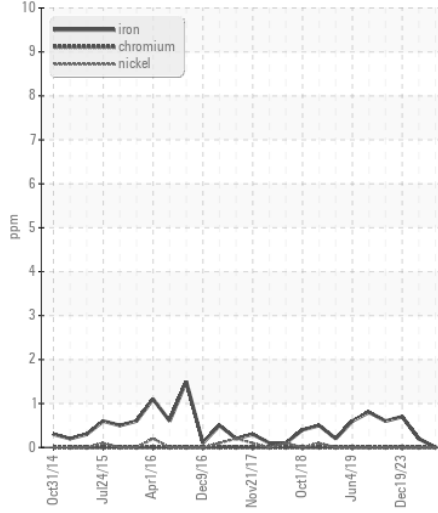
Acid Number



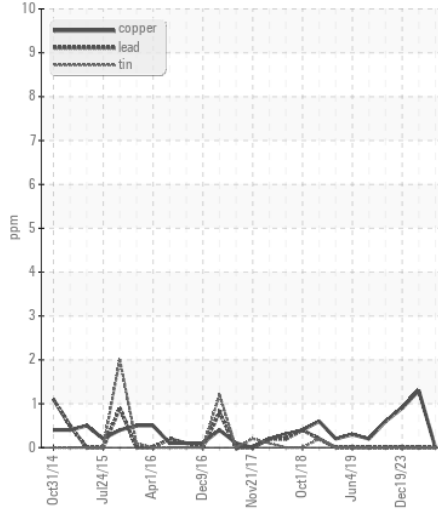
PQ



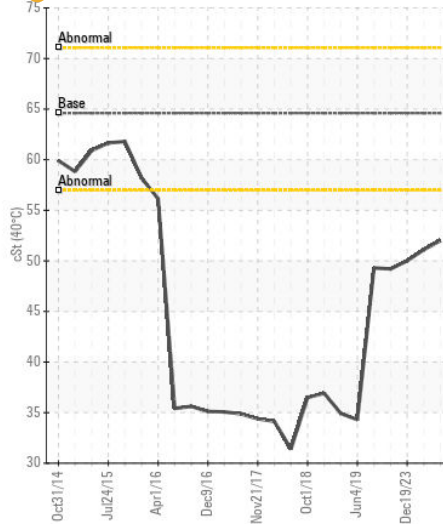
Ferrous Alloys



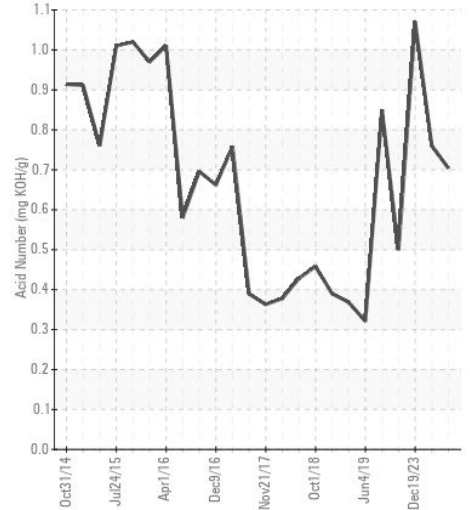
Non-ferrous Metals



● Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0048621 Received : 05 Jul 2024
 Lab Number : 06228440 Tested : 10 Jul 2024
 Unique Number : 11111933 Diagnosed : 10 Jul 2024 - Jonathan Hester
 Test Package : CONST (Additional Tests: PQ)

ARMSTRONG WOOD PRODUCTS
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)