



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 3 - Norton
Machine Id
TILT 1 (S/N BV311030)
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (50 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048614	LEC0045207	LEC0045219
Sample Date		Client Info		21 May 2024	10 Apr 2024	13 Jan 2024
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	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	6	5	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	0	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

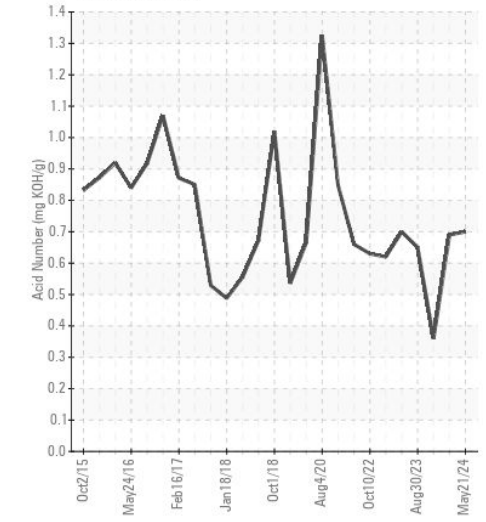
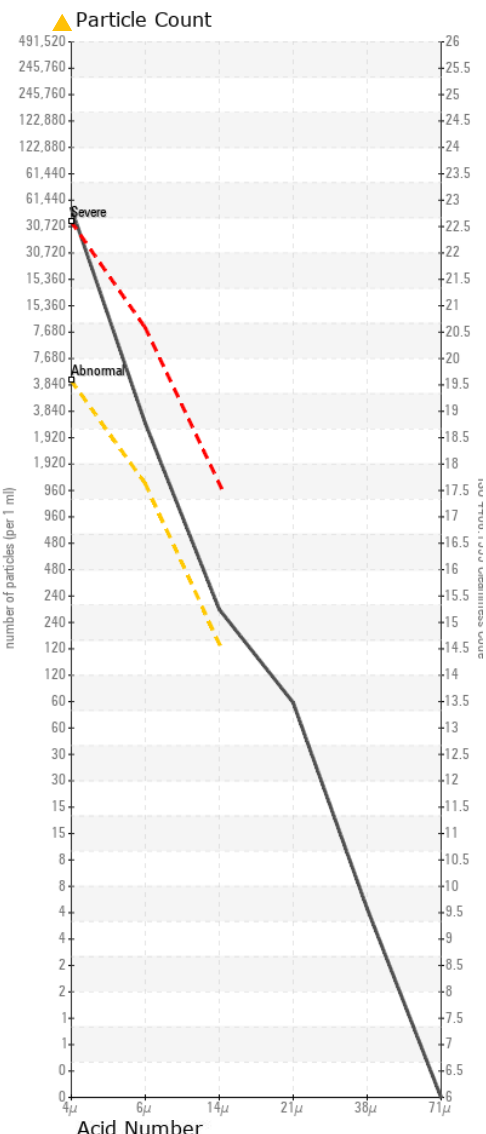
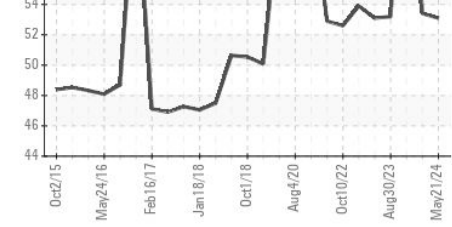
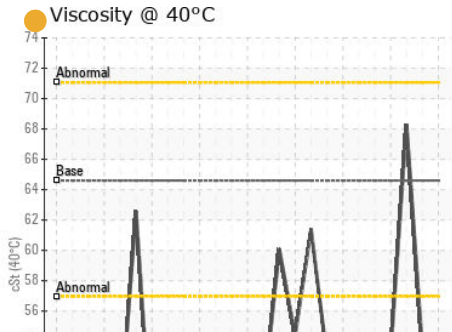
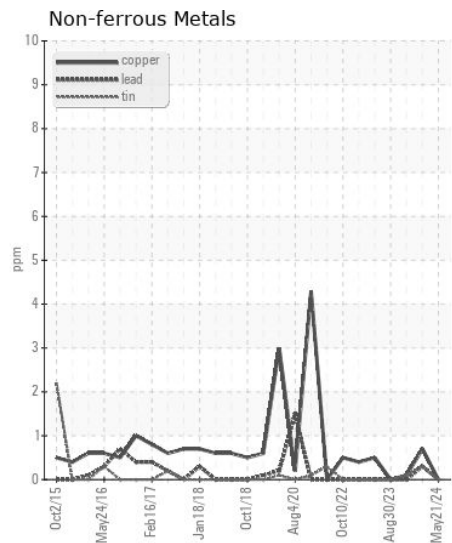
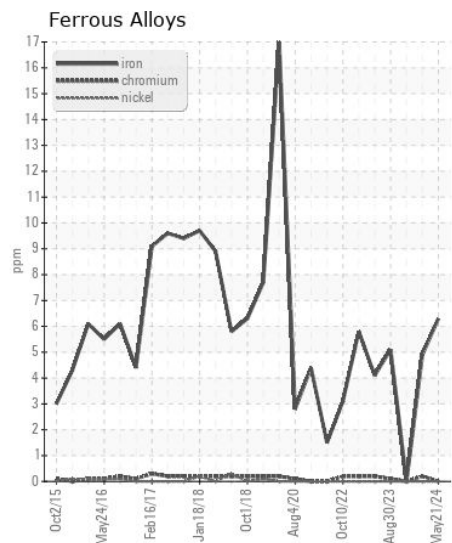
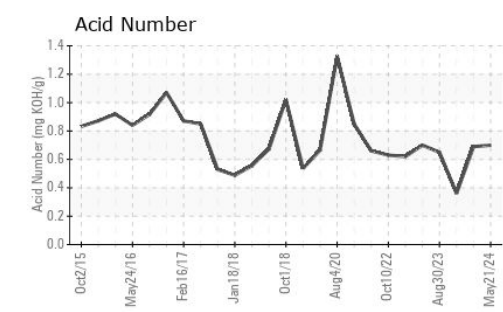
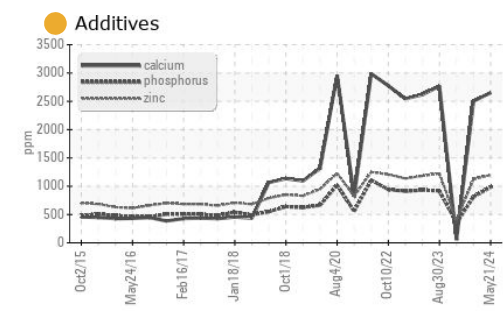
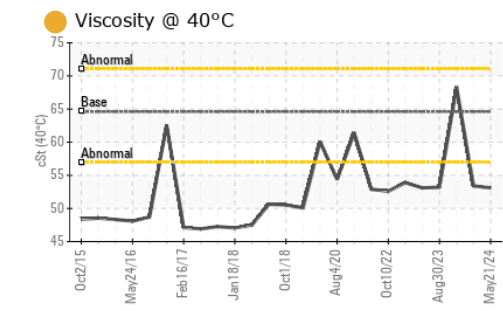
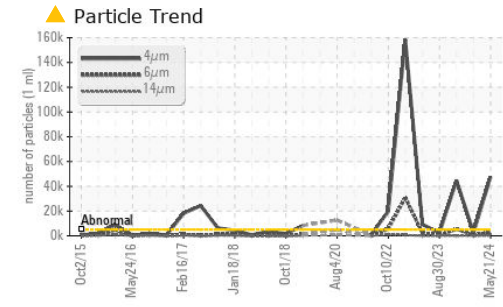
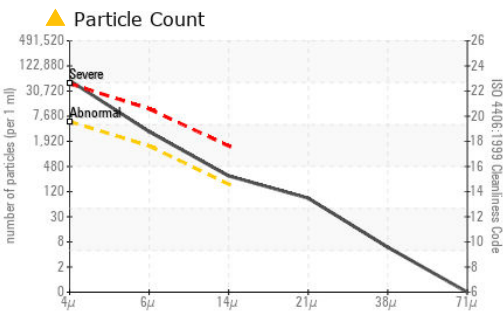
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	11	6	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 47691	2689	▲ 44628
Particles >6µm		ASTM D7647	>1300	▲ 2866	455	▲ 5468
Particles >14µm		ASTM D7647	>160	▲ 251	49	▲ 102
Particles >21µm		ASTM D7647	>40	▲ 74	15	▲ 27
Particles >38µm		ASTM D7647	>10	5	1	▲ 17
Particles >71µm		ASTM D7647	>3	0	0	▲ 14
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/19/15	19/16/13	▲ 23/20/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		6	6	0
Boron	ppm	ASTM D5185m		● 90	● 85	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		● 68	● 66	<1
Calcium	ppm	ASTM D5185m		● 2652	● 2503	57
Phosphorus	ppm	ASTM D5185m		● 981	811	347
Zinc	ppm	ASTM D5185m		● 1199	● 1124	403
Sulfur	ppm	ASTM D5185m		● 8548	● 8099	816
Acid Number (AN)	mg KOH/g	ASTM D8045		0.70	0.69	0.36
Visc @ 40°C	cSt	ASTM D445	64.6	● 53.1	● 53.4	68.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048614 **Received** : 05 Jul 2024
Lab Number : 06228441 **Tested** : 08 Jul 2024
Unique Number : 11111934 **Diagnosed** : 08 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)
 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)

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