



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton
Machine Id
SLIP 2 BOARD TURNER HYD UNIT (S/N BV112015)
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (--- 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 metal particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048615	LEC0045206	LEC0042928
Sample Date		Client Info		07 Jul 2024	10 Apr 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	ABNORMAL

WEAR

Moderate concentration of visible metal present. The high ferrous density (PQ) index indicates that abnormal wear is occurring. All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		▲ 42	15	19
Iron	ppm	ASTM D5185m	>20	12	2	4
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	7
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	2
Lead	ppm	ASTM D5185m	>10	3	0	0
Copper	ppm	ASTM D5185m	>75	35	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

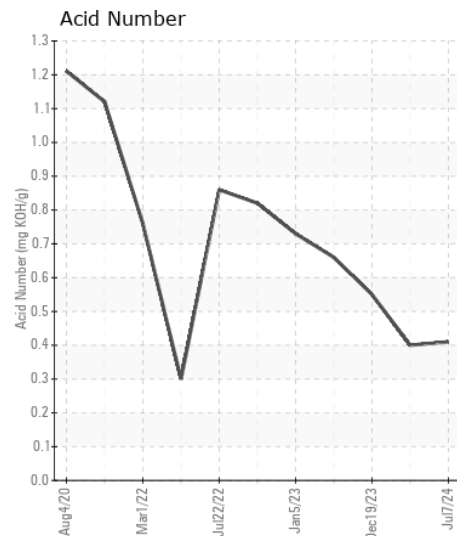
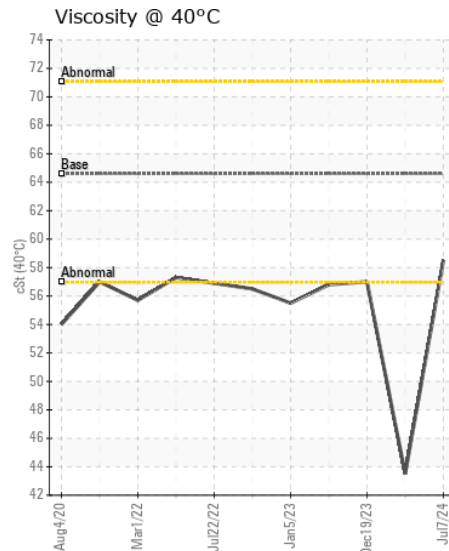
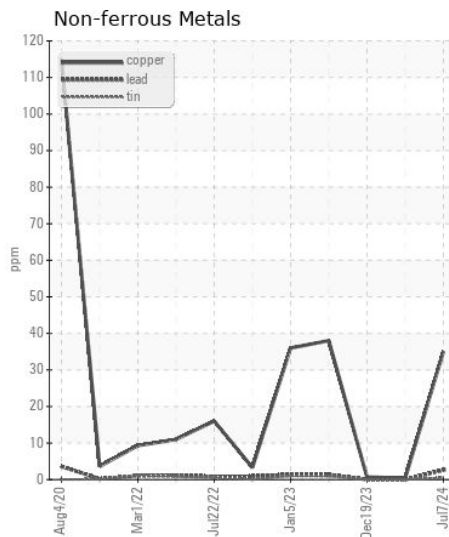
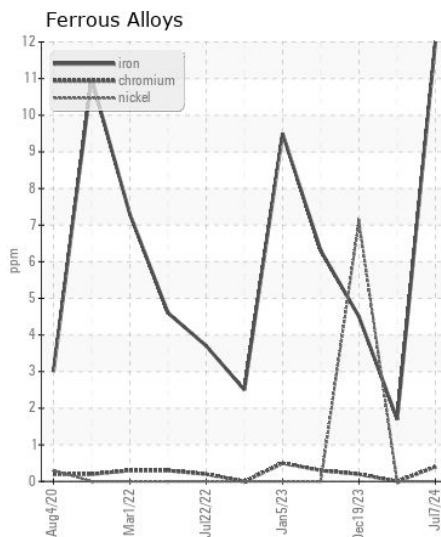
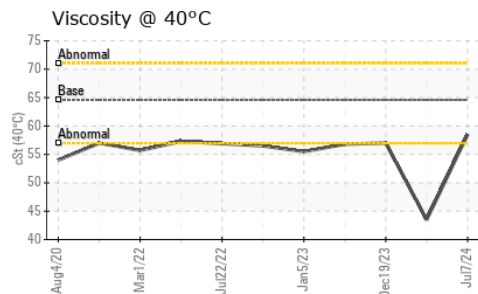
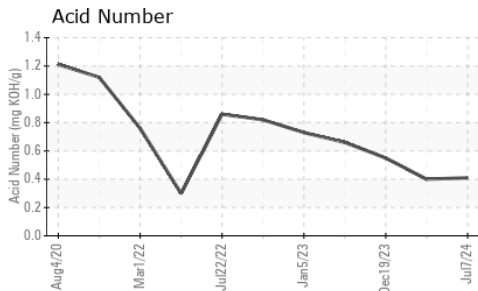
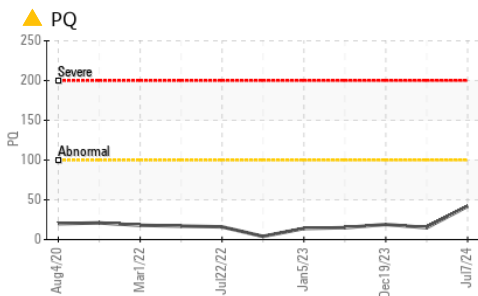
There is a moderate amount of particulates present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	10	1	▲ 40
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	---	4777	▲ 59097
Particles >6µm		ASTM D7647	>1300	---	715	▲ 3992
Particles >14µm		ASTM D7647	>160	---	68	117
Particles >21µm		ASTM D7647	>40	---	24	33
Particles >38µm		ASTM D7647	>10	---	1	2
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	19/17/13	▲ 23/19/14
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		4	<1	6
Boron	ppm	ASTM D5185m		36	7	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	9	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		8	2	4
Calcium	ppm	ASTM D5185m		1410	310	210
Phosphorus	ppm	ASTM D5185m		655	341	257
Zinc	ppm	ASTM D5185m		760	463	413
Sulfur	ppm	ASTM D5185m		3816	1614	1157
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.40	0.55
Visc @ 40°C	cSt	ASTM D445	64.6	58.5	43.5	57.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048615 **Received** : 05 Jul 2024
Lab Number : 06228891 **Tested** : 10 Jul 2024
Unique Number : 11112384 **Diagnosed** : 10 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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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)