



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CORSTEEL 360T AUGER 360T (S/N CH2225H)
 Component
Hydraulic System
 Fluid
CHEVRON CLARITY HYDRAULIC AW 46 (--- GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0806197	WC0773358	---
Sample Date		Client Info		03 Jun 2024	09 May 2023	---
Machine Age	hrs	Client Info		7400	5693	---
Oil Age	hrs	Client Info		7400	5693	---
Filter Age	hrs	Client Info		1693	1693	---
Oil Changed		Client Info		Not Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	1	<1	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>10	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>10	0	0	---
Lead	ppm	ASTM D5185(m)	>10	0	<1	---
Copper	ppm	ASTM D5185(m)	>75	10	9	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

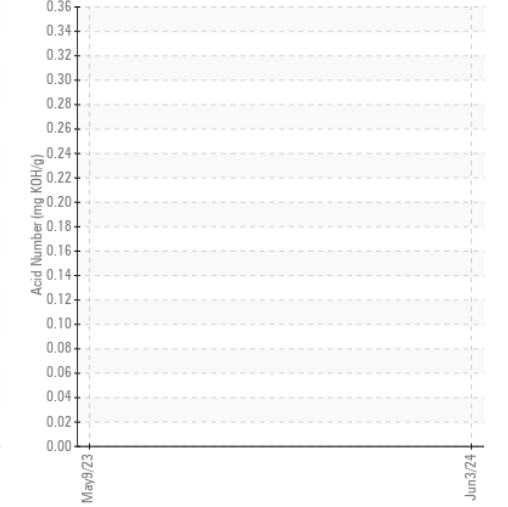
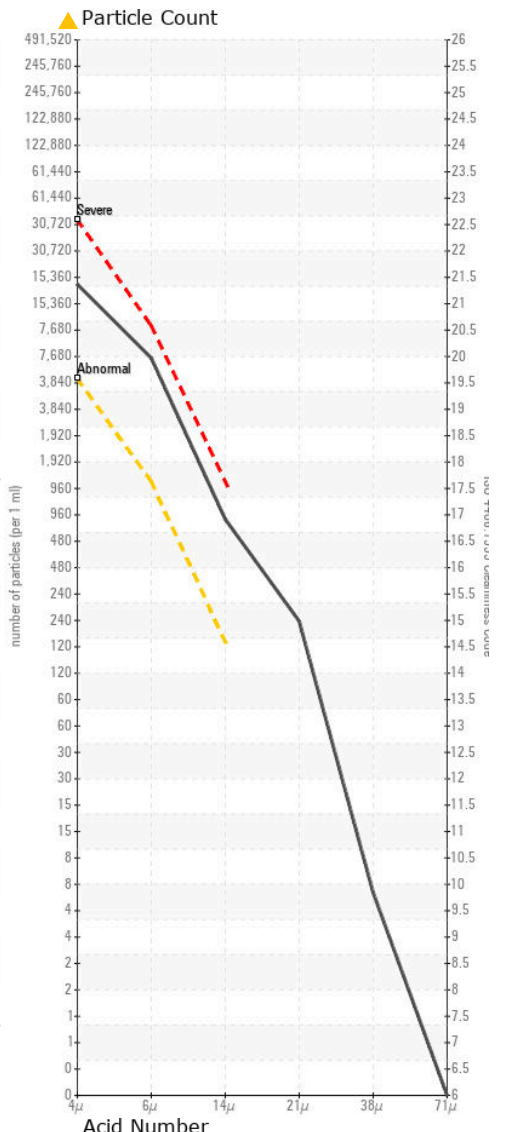
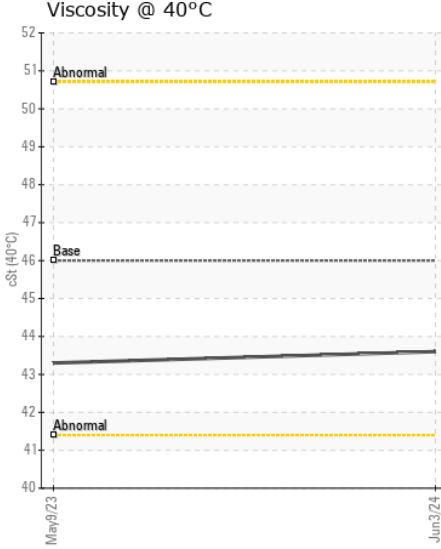
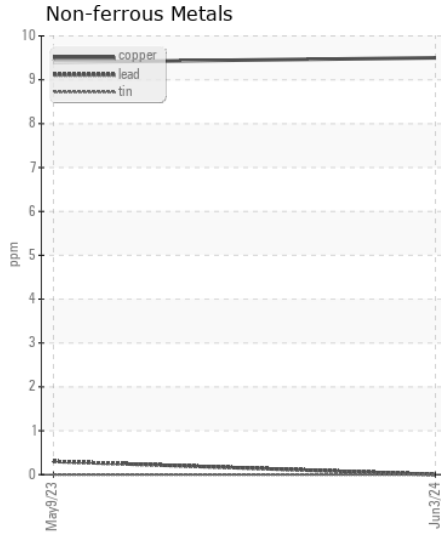
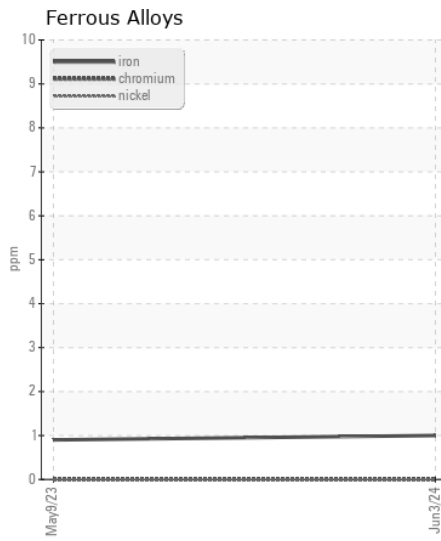
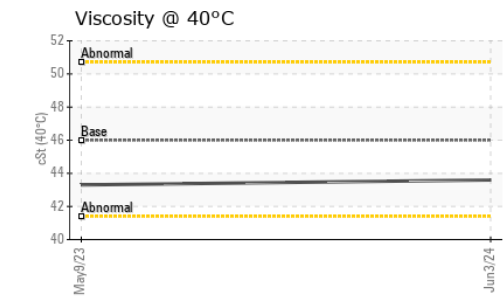
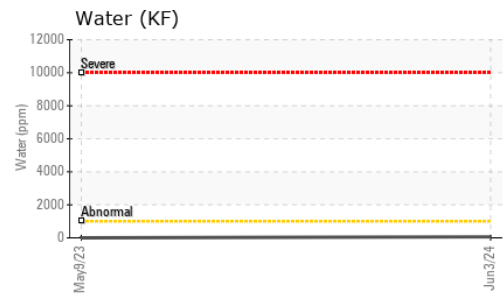
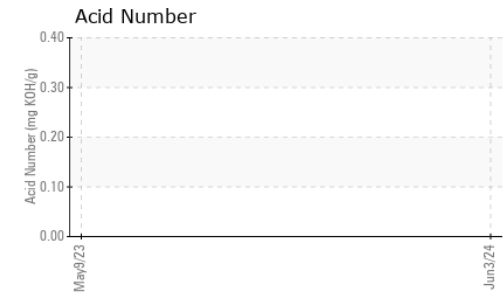
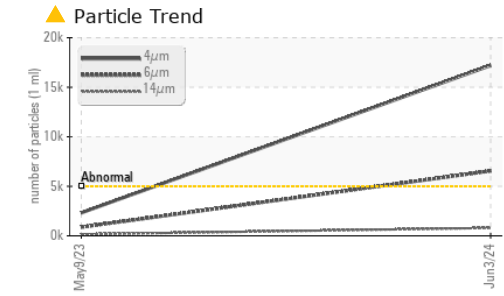
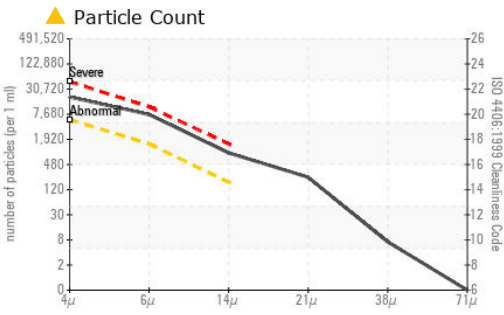
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>20	0	0	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water	%	ASTM D6304*	>0.1	0.006	---	---
ppm Water	ppm	ASTM D6304*	>1000	66	---	---
Particles >4µm		ASTM D7647	>5000	▲ 17203	2324	---
Particles >6µm		ASTM D7647	>1300	▲ 6554	876	---
Particles >14µm		ASTM D7647	>160	▲ 795	152	---
Particles >21µm		ASTM D7647	>40	▲ 209	50	---
Particles >38µm		ASTM D7647	>10	6	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/20/17	18/17/14	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	.2%	NEG	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<1	<1	---
Boron	ppm	ASTM D5185(m)		<1	<1	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		3	2	---
Calcium	ppm	ASTM D5185(m)		43	44	---
Phosphorus	ppm	ASTM D5185(m)		326	350	---
Zinc	ppm	ASTM D5185(m)		399	392	---
Sulfur	ppm	ASTM D5185(m)		809	828	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.35	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	43.6	▲ 43.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0806197 **Received** : 13 Jun 2024
Lab Number : 02641702 **Tested** : 14 Jun 2024
Unique Number : 5799241 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KF, TAN Auto, TAN Man)

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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.