



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ERMAK POWERBEND PRO EM023225 (S/N 06480-MCBNH8)

Component
Hydraulic System

Fluid
CHEVRON HYDRAULIC OIL AW ISO 46 (200 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0806198	WC0773359	WC0669664
Sample Date		Client Info		03 Jun 2024	09 May 2023	13 May 2022
Machine Age	hrs	Client Info		16548	15193	13500
Oil Age	hrs	Client Info		8548	7193	5200
Filter Age	hrs	Client Info		400	1693	1500
Oil Changed		Client Info		Not Changed	N/A	Not Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

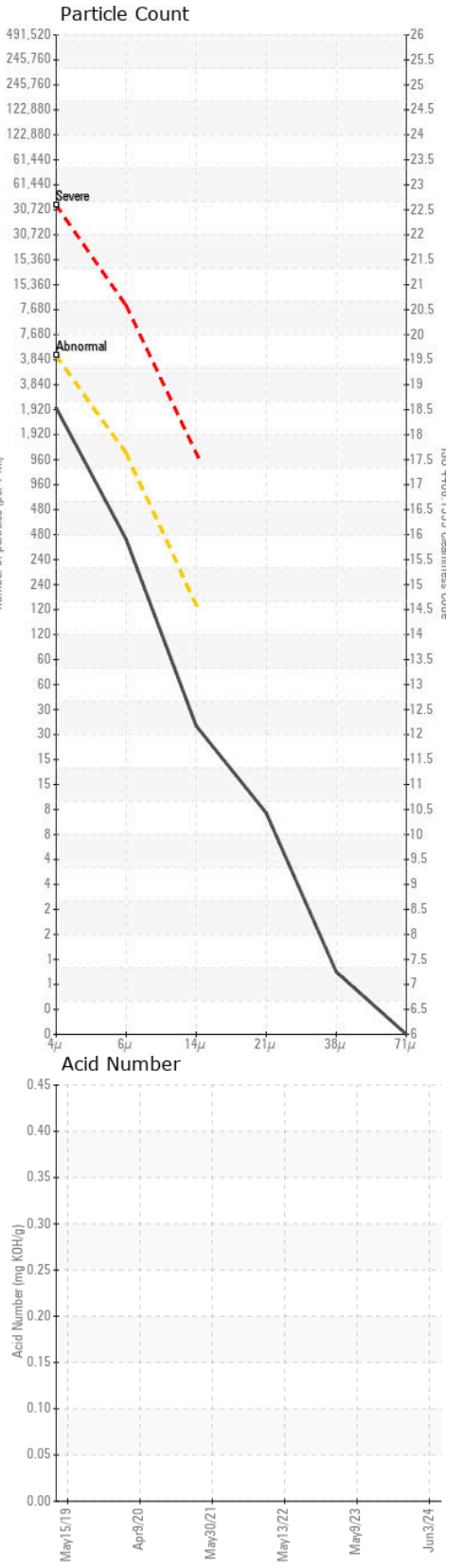
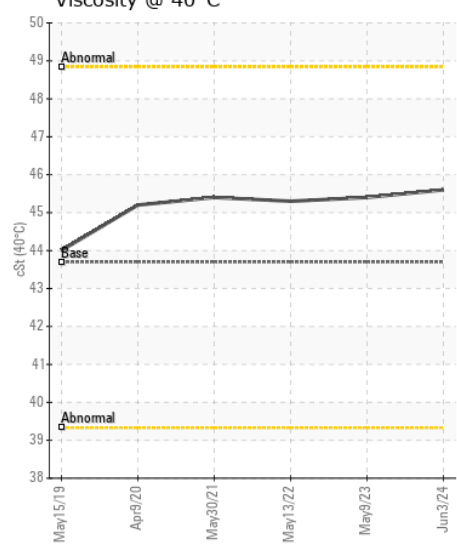
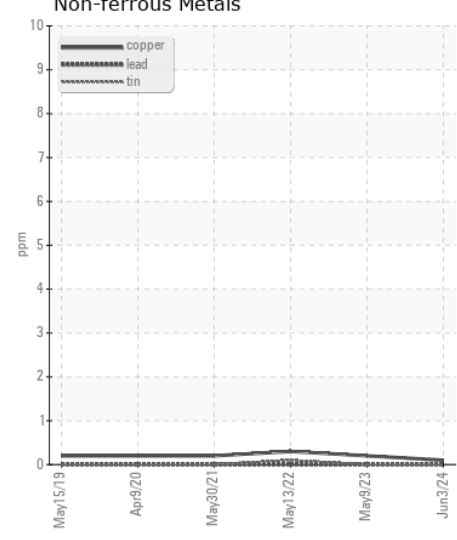
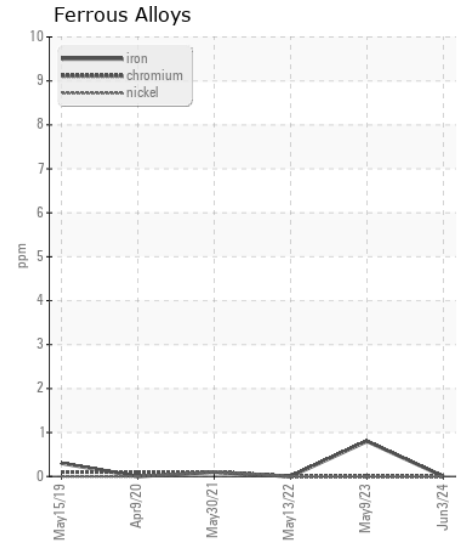
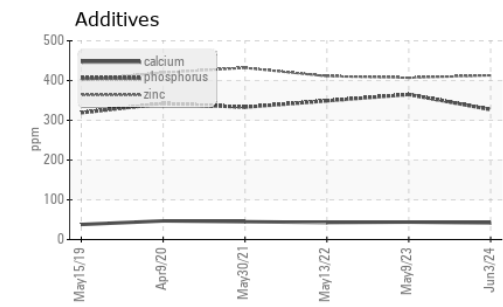
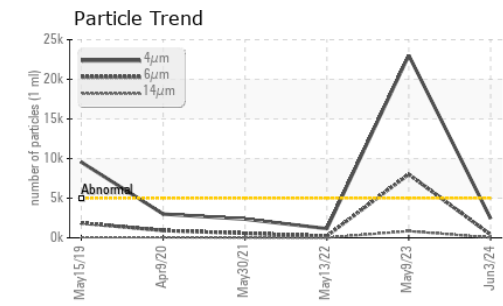
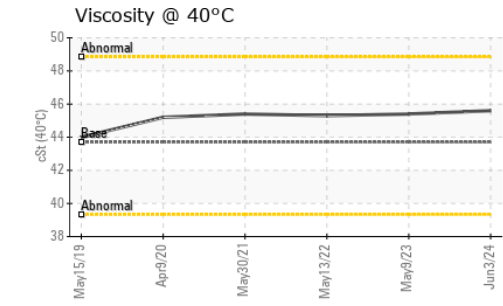
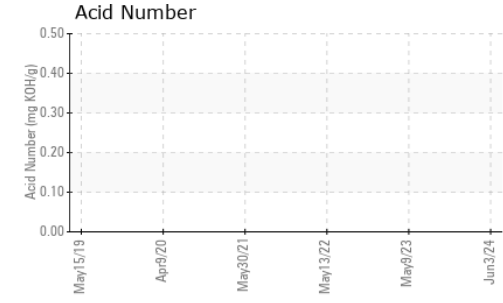
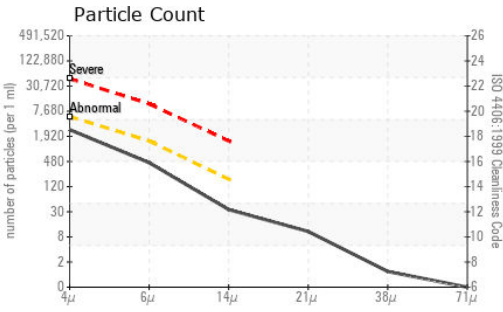
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2431	▲ 23021	1159
Particles >6µm		ASTM D7647	>1300	395	▲ 8016	223
Particles >14µm		ASTM D7647	>160	30	▲ 846	16
Particles >21µm		ASTM D7647	>40	9	▲ 200	4
Particles >38µm		ASTM D7647	>10	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	▲ 22/20/17	17/15/11
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

Additive levels indicate the addition of a different brand, or type of oil.
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	0	<1
Boron	ppm	ASTM D5185(m)		<1	<1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	0
Calcium	ppm	ASTM D5185(m)		42	44	43
Phosphorus	ppm	ASTM D5185(m)		327	365	349
Zinc	ppm	ASTM D5185(m)		413	407	411
Sulfur	ppm	ASTM D5185(m)		666	790	768
Acid Number (AN)	mg KOH/g	ASTM D974*		0.44	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	43.7	45.6	45.4	45.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0806198 **Received** : 13 Jun 2024
Lab Number : 02641704 **Tested** : 14 Jun 2024
Unique Number : 5799243 **Diagnosed** : 14 Jun 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: TAN Auto, TAN Man)

SUPREME INTERNATIONAL
 BOX 6450
 WETASKIWIN, AB
 CA T9A 2G2
 Contact: LORNE EHLERT
 lehlert@supremeinternational.com
 T: (780)352-6061
 F: (780)352-6056

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.