



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
VIKERS MATALCO CASTING
 Component
Hydraulic System
 Fluid
QUAKER CHEMICAL QUINTOLUBRIC 888-46 (--- GAL)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0858889	WC0776100	PP
Sample Date		Client Info		09 May 2024	22 Feb 2023	25 Oct 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	24
Filter Age	mths	Client Info		7	4	6
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	6	5	4
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	8	3	3
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>20	1	2	2
Tin	ppm	ASTM D5185(m)	>20	242	237	242
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

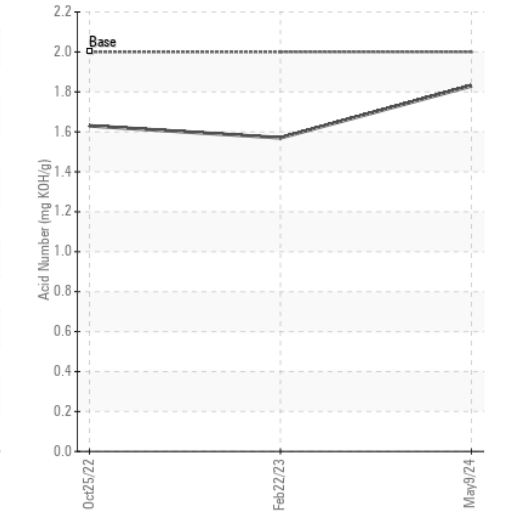
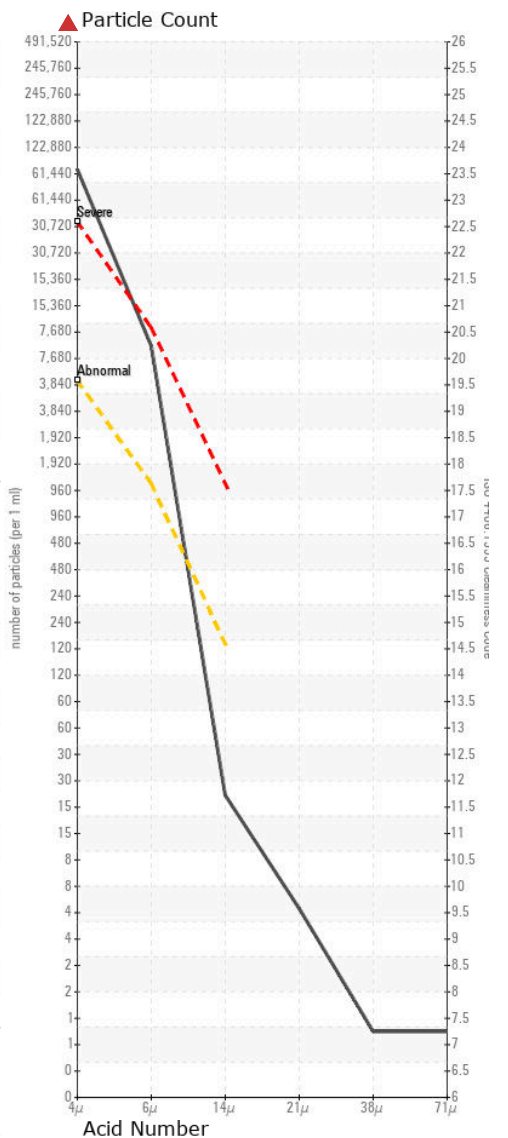
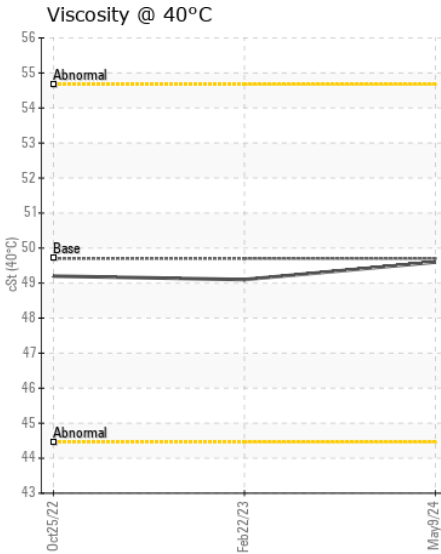
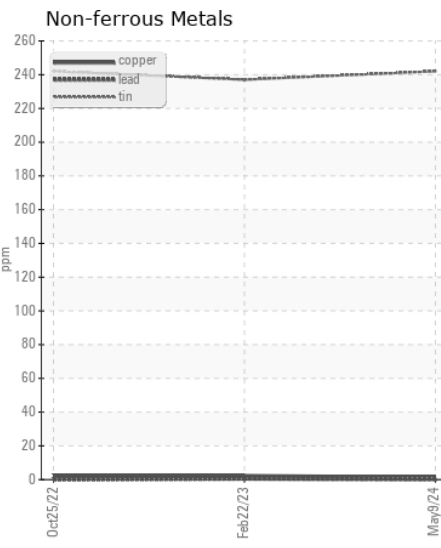
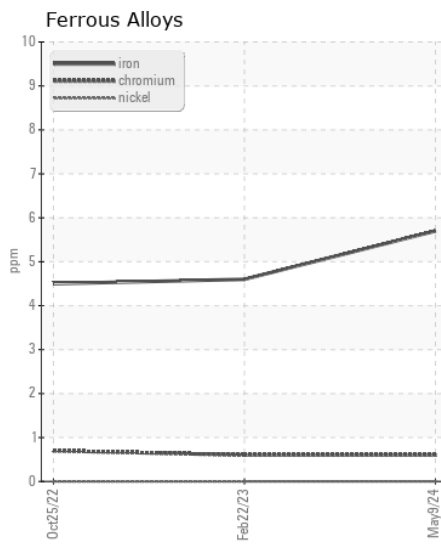
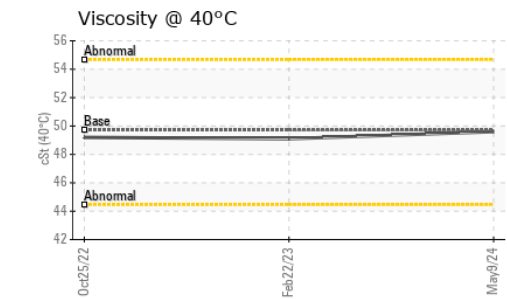
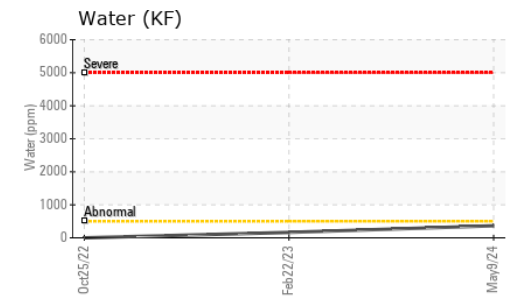
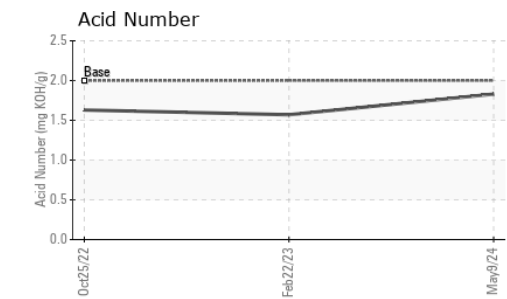
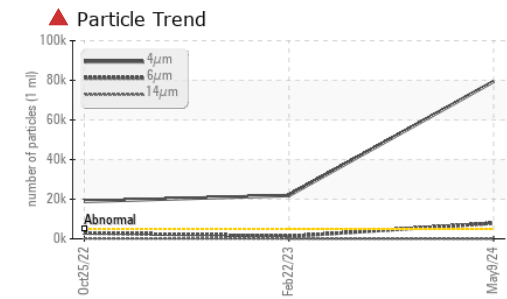
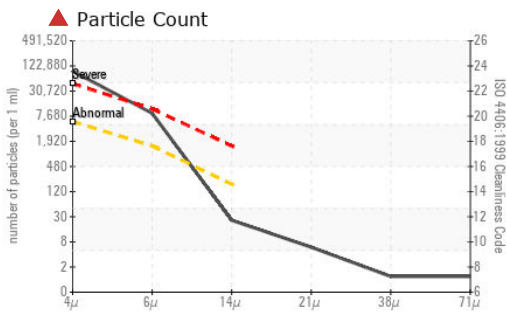
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	6	5
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water	%	ASTM D6304*	>0.05	0.036	0.016	---
ppm Water	ppm	ASTM D6304*	>500	365	164.5	---
Particles >4µm		ASTM D7647	>5000	▲ 79456	▲ 21882	▲ 18883
Particles >6µm		ASTM D7647	>1300	▲ 7869	1273	▲ 2910
Particles >14µm		ASTM D7647	>160	22	67	95
Particles >21µm		ASTM D7647	>40	5	20	15
Particles >38µm		ASTM D7647	>10	1	2	1
Particles >71µm		ASTM D7647	>3	1	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/20/12	▲ 22/17/13	▲ 21/19/14
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*	>0.05	NEG	NEG	NEG

FLUID CONDITION

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)		2	3	4
Boron	ppm	ASTM D5185(m)		2	<1	<1
Barium	ppm	ASTM D5185(m)		8	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		6	2	2
Calcium	ppm	ASTM D5185(m)		54	24	17
Phosphorus	ppm	ASTM D5185(m)		92	107	112
Zinc	ppm	ASTM D5185(m)		9	8	7
Sulfur	ppm	ASTM D5185(m)		476	503	516
Acid Number (AN)	mg KOH/g	ASTM D974*	2.0	1.83	1.57	1.63
Visc @ 40°C	cSt	ASTM D7279(m)	49.7	49.6	49.1	49.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0858889 **Received** : 14 May 2024
Lab Number : 02635278 **Tested** : 15 May 2024
Unique Number : 5776431 **Diagnosed** : 15 May 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF)

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.

CASVIN ENTERPRISES
 22 RICHGROVE
 TORONTO, ON
 CA M9R 2K9
 Contact: Albert Nestico
 ocitsen@rogers.com
 T: (416)725-5493
 F: