



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area

T.M.B.

Machine Id

5502-CWC-100 (S/N 16)

Component

1 Gearbox

Fluid

CHEVRON CYLINDER OIL W ISO 680 (20 LTR)

RECOMMENDATION

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

WEAR

Il y a indication d'usure de roulements-coussinets et/ou d'engrenages. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

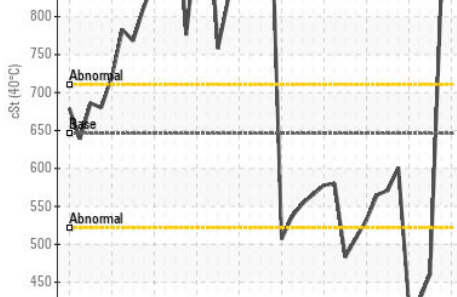
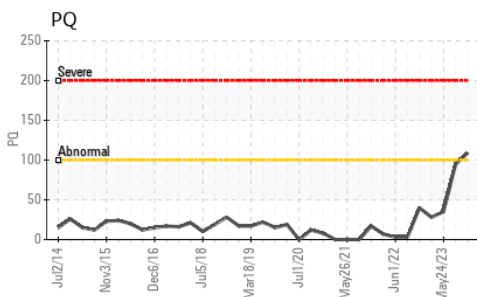
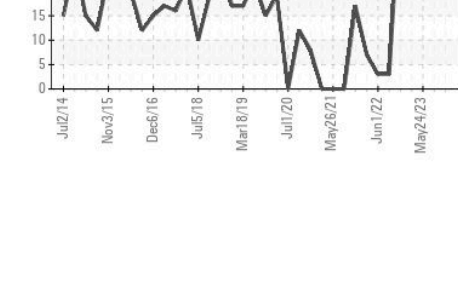
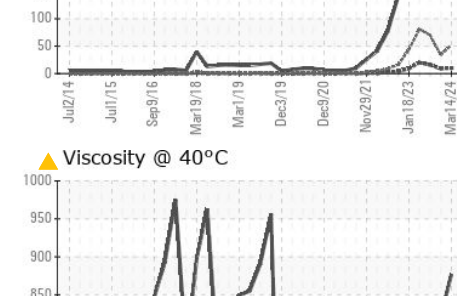
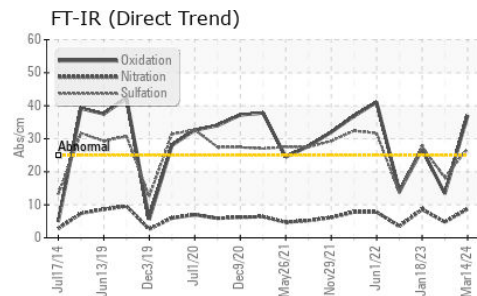
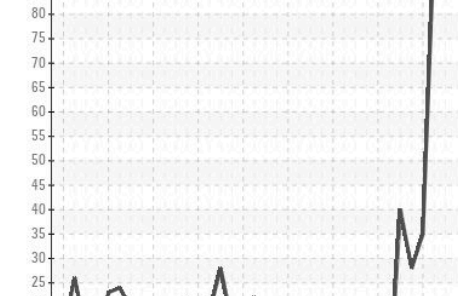
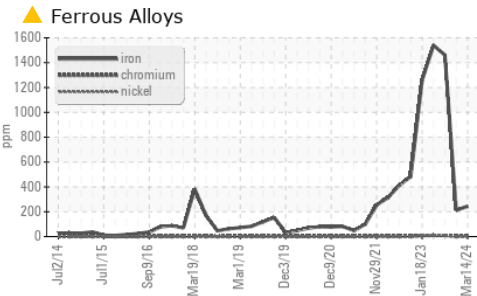
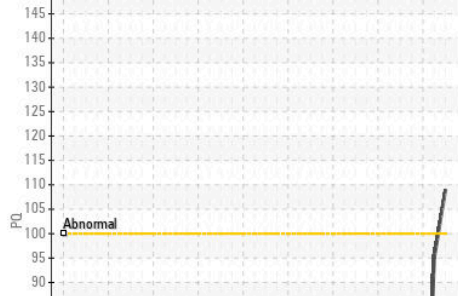
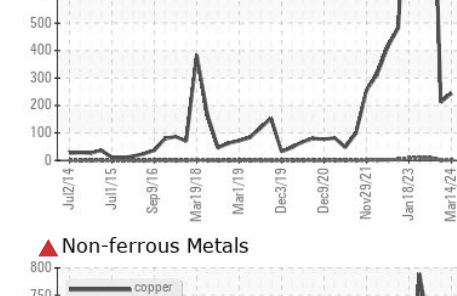
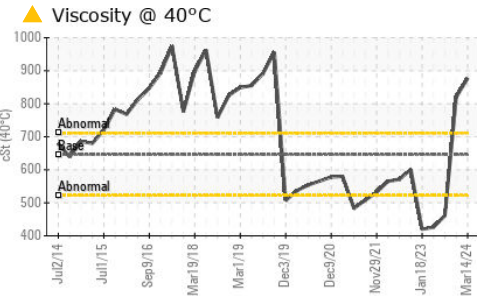
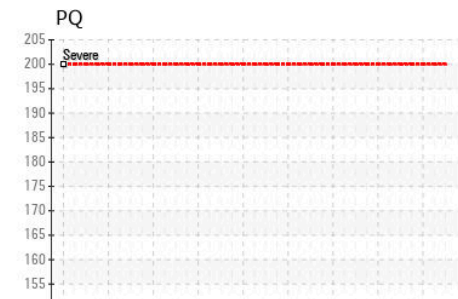
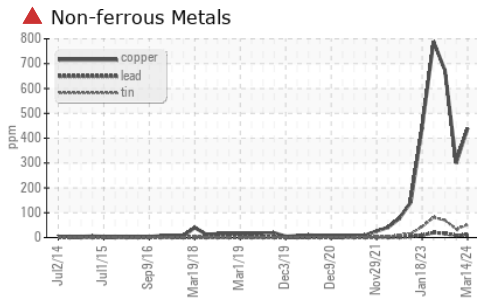
CONTAMINATION

Il n'y a aucun indice de contamination dans l'huile.

FLUID CONDITION

La viscosité de l'échantillon se situe dans la portée de l'ISO 1000; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0842810	WC0884532	WC0818920
Sample Date		Client Info		14 Mar 2024	06 Dec 2023	24 May 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		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
PQ		ASTM D8184*		109	95	35
Iron	ppm	ASTM D5185(m)	>200	▲ 244	▲ 212	▲ 1461
Chromium	ppm	ASTM D5185(m)	>15	1	1	9
Nickel	ppm	ASTM D5185(m)	>15	<1	1	7
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	3
Lead	ppm	ASTM D5185(m)	>100	10	9	16
Copper	ppm	ASTM D5185(m)	>200	▲ 440	▲ 300	▲ 674
Tin	ppm	ASTM D5185(m)	>25	▲ 52	▲ 34	▲ 70
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Silicon	ppm	ASTM D5185(m)	>50	2	3	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		8.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*		27.0	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	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*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<1	<1	1
Boron	ppm	ASTM D5185(m)		2	2	8
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	2
Manganese	ppm	ASTM D5185(m)		2	2	12
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		0	<1	0
Phosphorus	ppm	ASTM D5185(m)		10	9	92
Zinc	ppm	ASTM D5185(m)		3	3	14
Sulfur	ppm	ASTM D5185(m)		4021	4336	7557
Oxidation	Abs/.1mm	ASTM D7414*		37.0	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	646	▲ 877	▲ 820	▲ 461



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0842810
Lab Number : 02627527
Unique Number : 5760659
Test Package : IND 1 (Additional Tests: FT-IR, PQ)
Received : 08 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Kevin Marson

RTA - ALMA
 3000 RUE DES PINS OUEST, BATISSE 7103 MEZZALINE
 ALMA, QC
 CA G8B 6T3
 Contact: Guy Dufour
 guy.dufour-almacou@riotinto.com
 T:
 F: (418)480-6004

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.