



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TC02
Machine Id
TC02 8 Inch
Component
Gearbox
Fluid
SHELL OMALA S2 G 320 (140 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC	WC	WC
Sample Date		Client Info		17 Sep 2023	10 Sep 2023	25 Aug 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				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	56	58	4
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>15	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	<1	<1	0
Copper	ppm	ASTM D5185(m)	>200	1	1	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
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

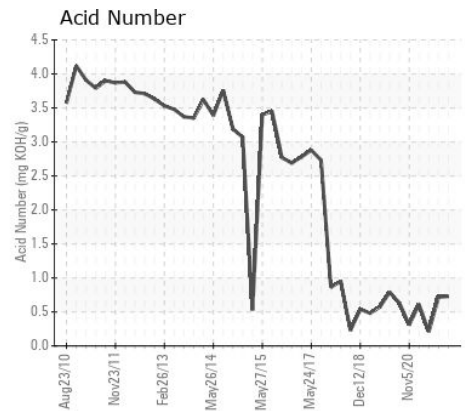
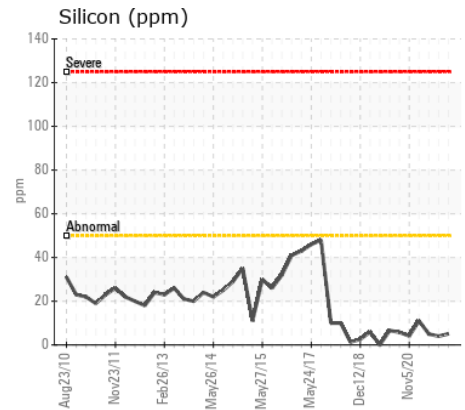
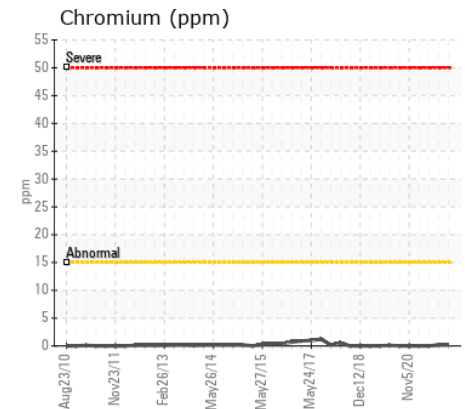
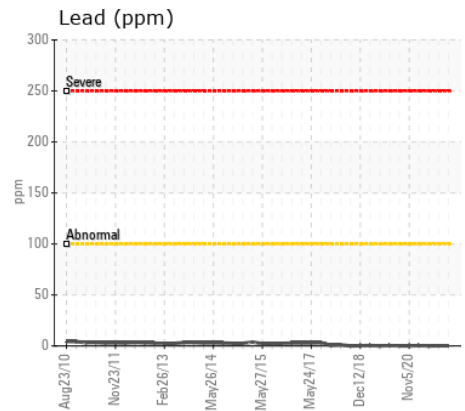
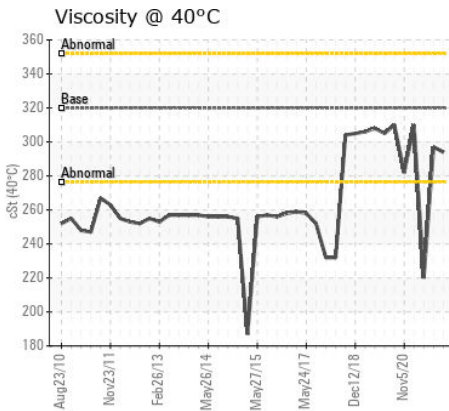
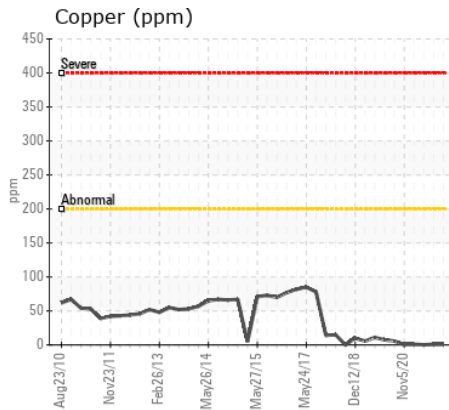
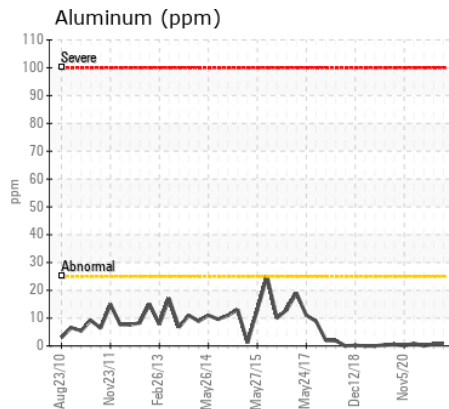
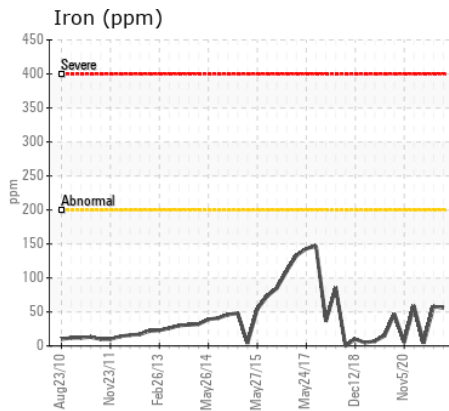
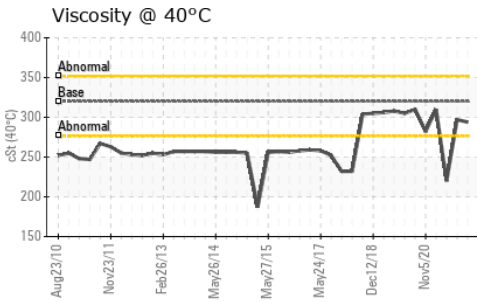
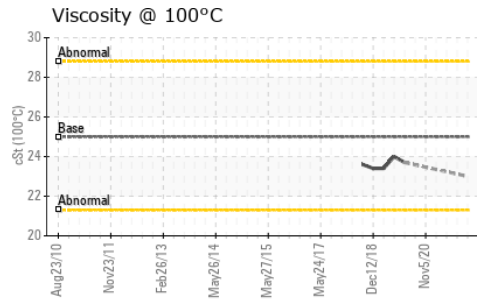
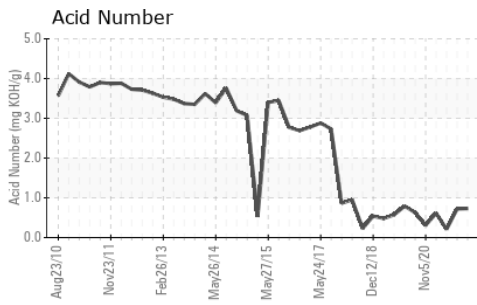
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	5	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		3.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*		13.5	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<1	<1	0
Boron	ppm	ASTM D5185(m)	5.5	2	2	<1
Barium	ppm	ASTM D5185(m)	0.4	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.5	59	60	6
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	23	1	<1	0
Calcium	ppm	ASTM D5185(m)	13	4	2	<1
Phosphorus	ppm	ASTM D5185(m)	450	296	295	327
Zinc	ppm	ASTM D5185(m)	9.9	48	48	7
Sulfur	ppm	ASTM D5185(m)	8181	8286	8860	9353
Oxidation	Abs/.1mm	ASTM D7414*		5.0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.73	0.72	0.21
Visc @ 40°C	cSt	ASTM D7279(m)	320	294	297	▲ 220
Visc @ 100°C	cSt	ASTM D7279(m)	25.0	23.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	100	96	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : WC

Lab Number : 02583063

Unique Number : 5644128

Test Package : MOB 1 (Additional Tests: FT-IR, KV100, TAN AUTO, TAN Man, VI)

Received : 18 Sep 2023

Tested : 19 Sep 2023

Diagnosed : 19 Sep 2023 - Wes Davis

Goodyear Napanee

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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.