



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 55390 LAKESHORE
Component
Diesel Engine
Fluid
TOTAL FINA RUBIA TIR 7900 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888767	WC0787074	WC0665498
Sample Date		Client Info		06 Mar 2024	23 Mar 2023	13 Jul 2022
Machine Age	hrs	Client Info		515	483	464
Oil Age	hrs	Client Info		32	0	0
Filter Age	hrs	Client Info		32	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<1	1	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	0	<1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

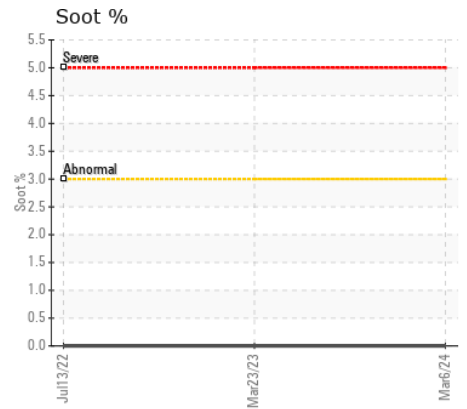
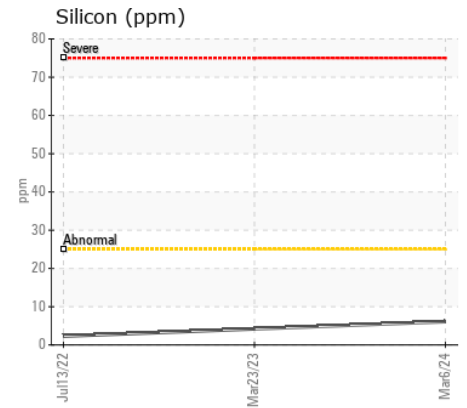
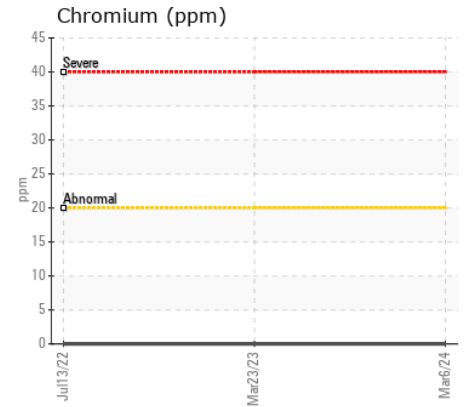
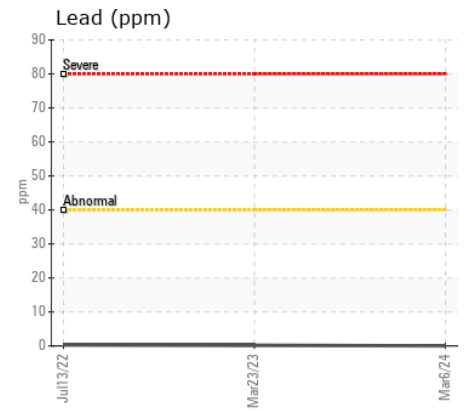
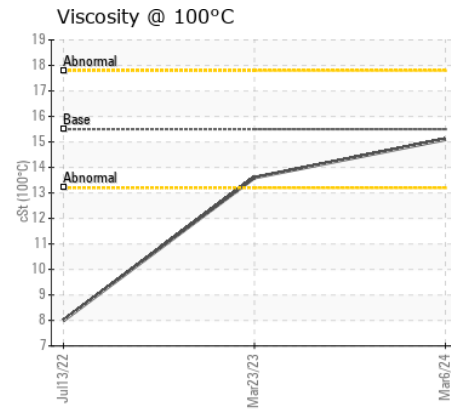
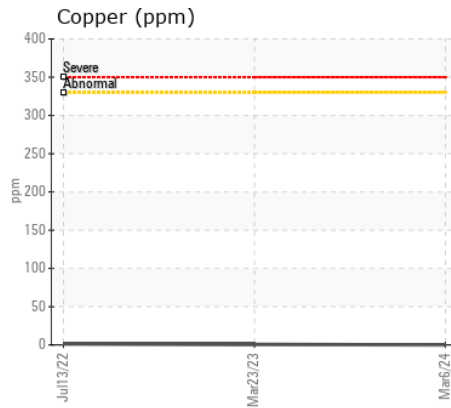
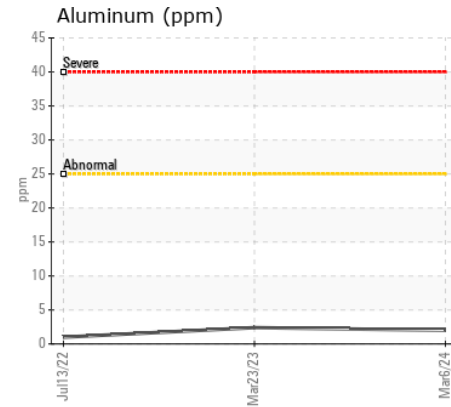
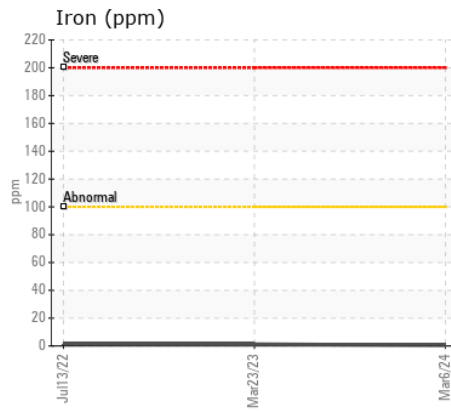
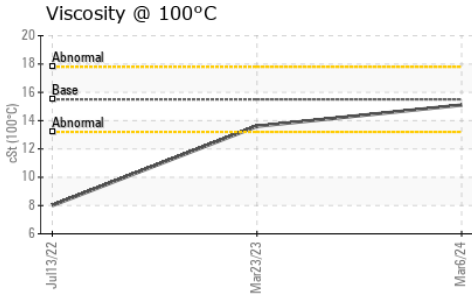
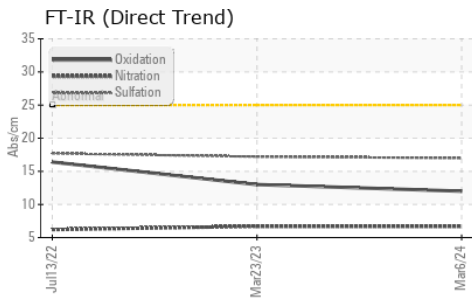
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	4	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>5	<1.0	1.9	▲ 14.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.7	6.7	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	17.2	17.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	3	1
Boron	ppm	ASTM D5185(m)		73	73	48
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		86	66	12
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		22	56	141
Calcium	ppm	ASTM D5185(m)	3290	2084	2255	1752
Phosphorus	ppm	ASTM D5185(m)	1200	970	1097	825
Zinc	ppm	ASTM D5185(m)	1400	1098	1134	849
Sulfur	ppm	ASTM D5185(m)	4000	3061	3174	1976
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.0	13.0	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	15.1	13.6	▲ 8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0888767 **Received** : 15 Apr 2024
Lab Number : 02628800 **Tested** : 16 Apr 2024
Unique Number : 5761932 **Diagnosed** : 16 Apr 2024 - Kevin Marson
Test Package : MOB 1

GenWorx Power Systems Inc.
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 CA L1S 7G1
 Contact: J Curtis
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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.