



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[25160]
 Machine Id
 Component
RT-22
 Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941351	WC0876593	WC0817993
Sample Date		Client Info		24 Jun 2024	20 Nov 2023	20 Jul 2023
Machine Age	kms	Client Info		73082	65660	56717
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	13	14	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	5	9	10
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

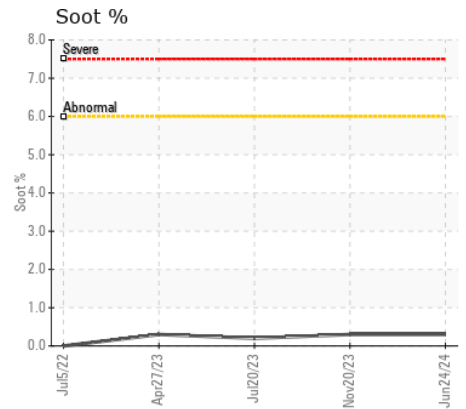
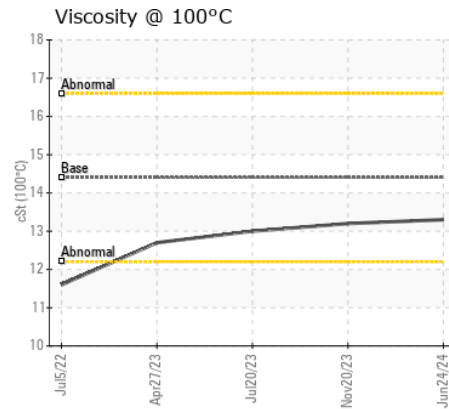
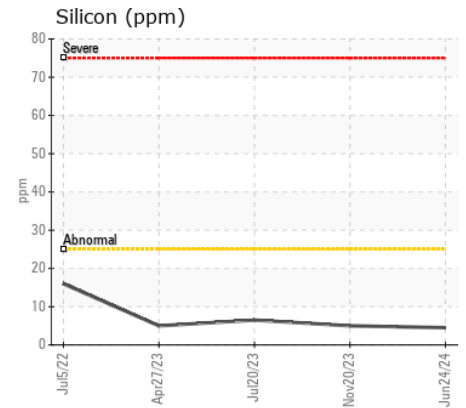
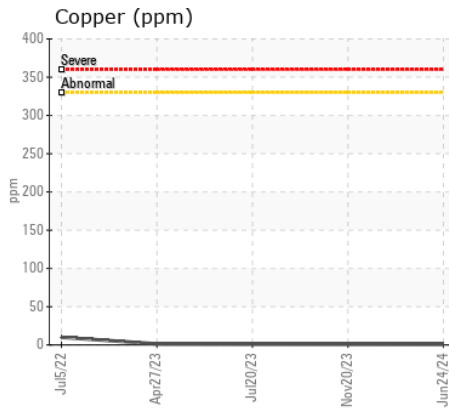
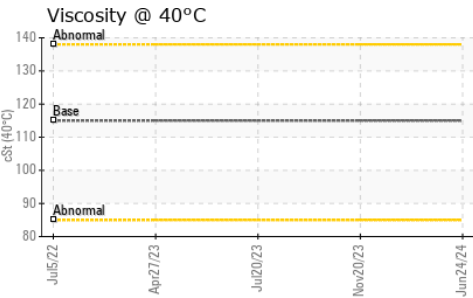
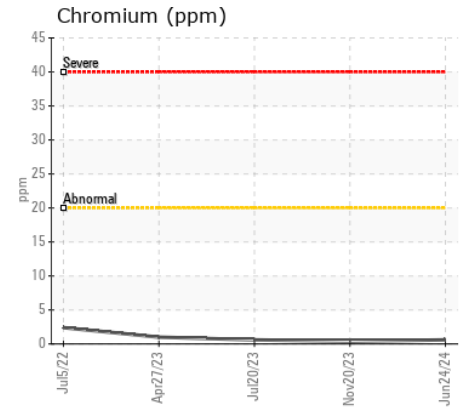
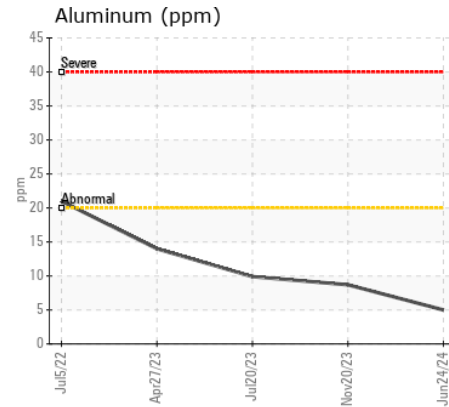
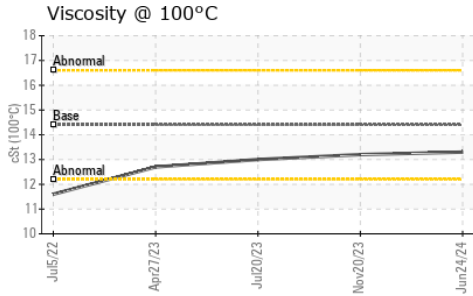
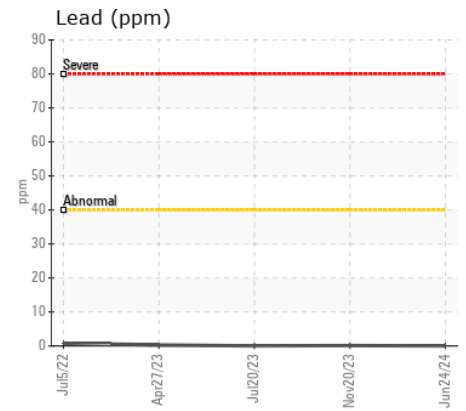
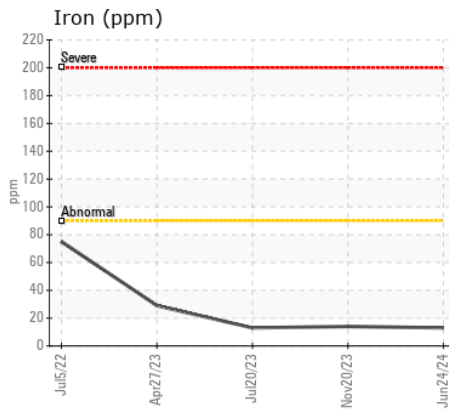
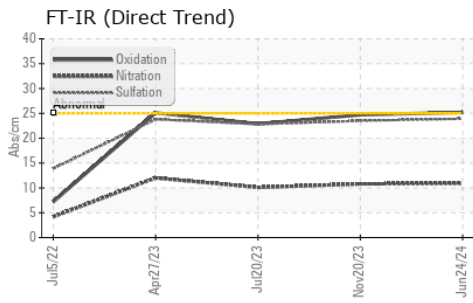
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Potassium	ppm	ASTM D5185(m)	>20	7	14	19
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.3	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	10.9	10.8	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	23.5	22.8
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)	>158	1	2	3
Boron	ppm	ASTM D5185(m)	250	29	29	26
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	42	46	47
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	501	454	485
Calcium	ppm	ASTM D5185(m)	3000	1723	1774	1754
Phosphorus	ppm	ASTM D5185(m)	1150	734	766	868
Zinc	ppm	ASTM D5185(m)	1350	885	914	957
Sulfur	ppm	ASTM D5185(m)	4250	2030	2116	2266
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.2	24.7	22.9
Visc @ 40°C	cSt	ASTM D7279(m)	115	99.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.3	13.2	13.0
Viscosity Index (VI)	Scale	ASTM D2270*	126	131	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941351 **Received** : 26 Jun 2024
Lab Number : 02644116 **Tested** : 26 Jun 2024
Unique Number : 5801655 **Diagnosed** : 27 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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.