



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
[71396]
 Machine Id
SUMMERSIDE (S/N L190699866)
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0021695	CU0019888	---
Sample Date		Client Info		11 Jun 2024	02 Mar 2023	---
Machine Age	hrs	Client Info		98	74	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				MARGINAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	3	7	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	---
Lead	ppm	ASTM D5185(m)	>40	0	2	---
Copper	ppm	ASTM D5185(m)	>330	4	109	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

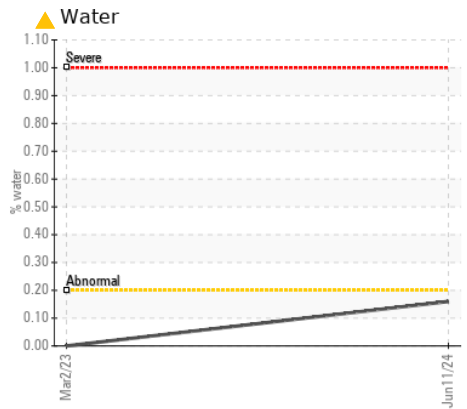
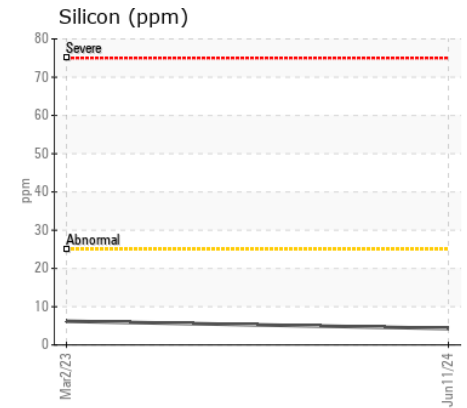
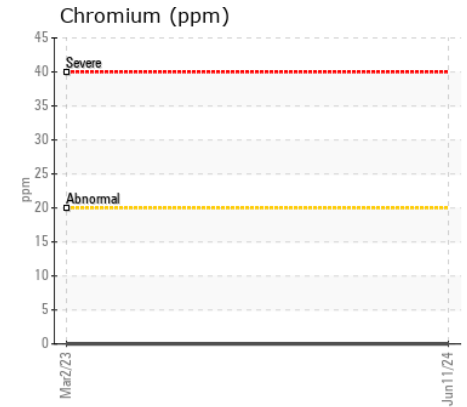
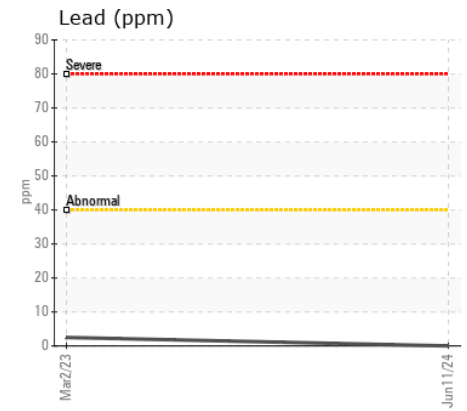
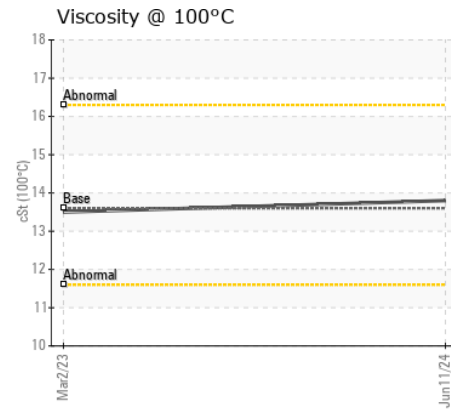
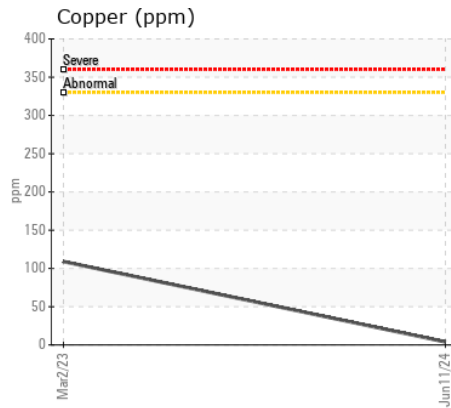
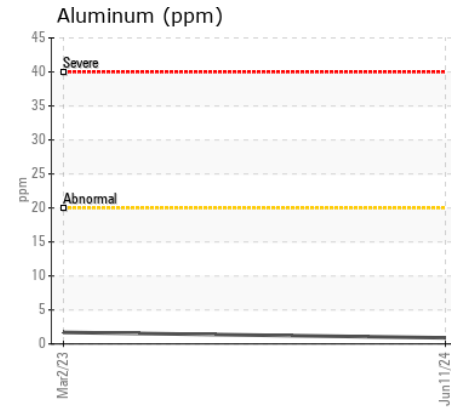
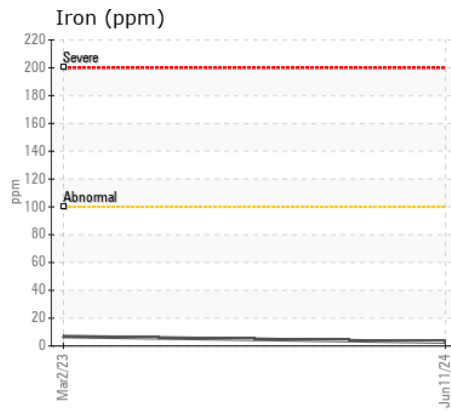
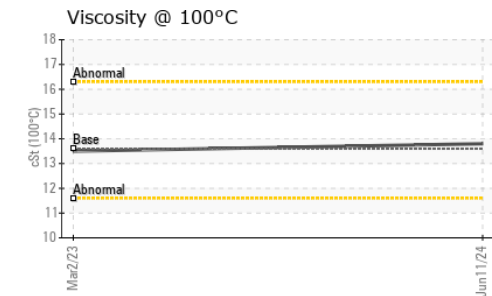
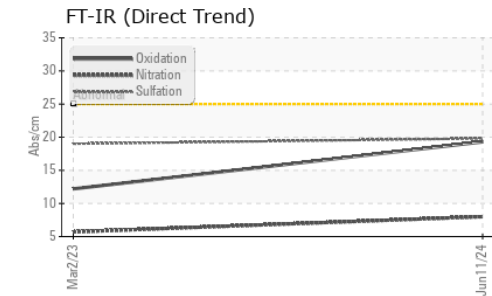
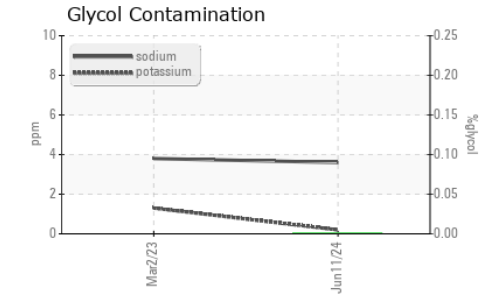
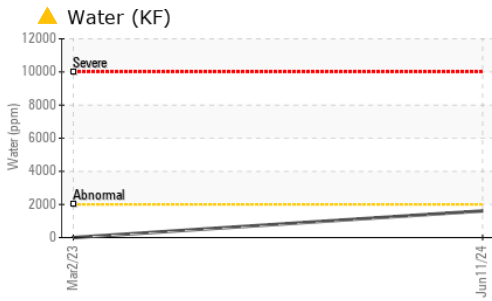
There is a trace of moisture present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>25	4	6	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water	%	ASTM D6304*	>0.2	▲ 0.160	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 1609	---	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.0	5.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.0	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	WGOIL	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ 1%	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	4	---
Boron	ppm	ASTM D5185(m)	39	41	42	---
Barium	ppm	ASTM D5185(m)	1	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	49	44	49	---
Manganese	ppm	ASTM D5185(m)	1	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	616	759	840	---
Calcium	ppm	ASTM D5185(m)	1554	1136	1132	---
Phosphorus	ppm	ASTM D5185(m)	899	680	855	---
Zinc	ppm	ASTM D5185(m)	1069	819	914	---
Sulfur	ppm	ASTM D5185(m)	2624	1902	2187	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.3	12.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	13.8	13.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021695 **Received** : 21 Jun 2024
Lab Number : 02643338 **Tested** : 24 Jun 2024
Unique Number : 5800877 **Diagnosed** : 24 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, 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.