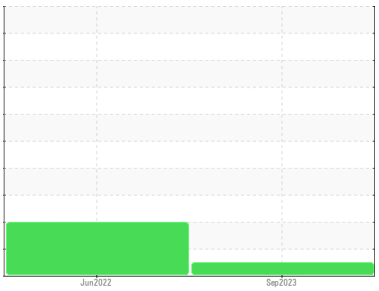
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
9690
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0853394**	WC0702674	---
Sample Date		Client Info		**02 Sep 2023**	22 Jun 2022	---
Machine Age	kms	Client Info		**0**	112868	---
Oil Age	kms	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	▲ 2.1	---
Glycol		WC Method		**NEG**	0.0	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**40**	9	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	0	---
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	---
Titanium	ppm	ASTM D5185(m)		**<1**	<1	---
Silver	ppm	ASTM D5185(m)	>3	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	**55**	2	---
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	---
Copper	ppm	ASTM D5185(m)	>330	**2**	<1	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**34**	85	---
Barium	ppm	ASTM D5185(m)	10	**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	100	**1**	8	---
Manganese	ppm	ASTM D5185(m)		**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	450	**722**	683	---
Calcium	ppm	ASTM D5185(m)	3000	**1313**	1348	---
Phosphorus	ppm	ASTM D5185(m)	1150	**693**	▲ 688	---
Zinc	ppm	ASTM D5185(m)	1350	**757**	▲ 760	---
Sulfur	ppm	ASTM D5185(m)	4250	**2464**	2558	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

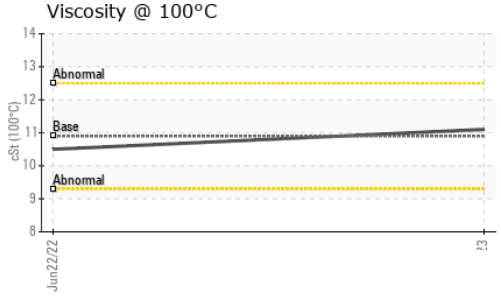
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**7**	4	---
Sodium	ppm	ASTM D5185(m)		**3**	28	---
Potassium	ppm	ASTM D5185(m)	>20	**90**	14	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.5**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**10.4**	8.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.5**	20.5	---

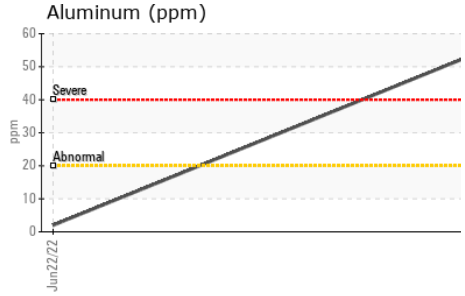
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.9**	13.0	---

OIL ANALYSIS REPORT

Viscosity @ 100°C



Aluminum (ppm)

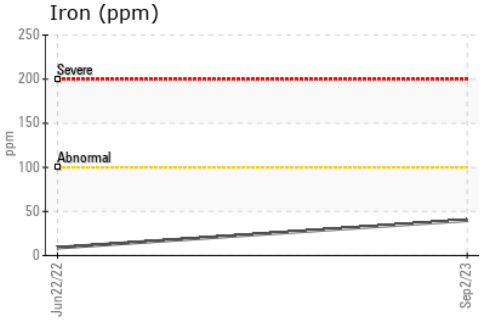


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

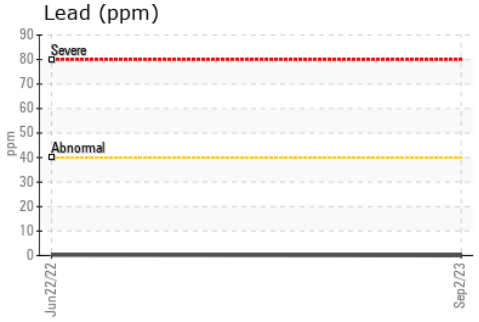
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.1**	▲ 10.5	---

GRAPHS

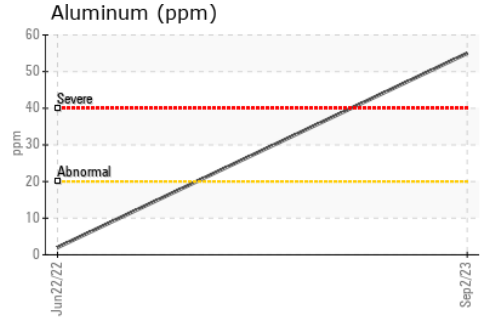
Iron (ppm)



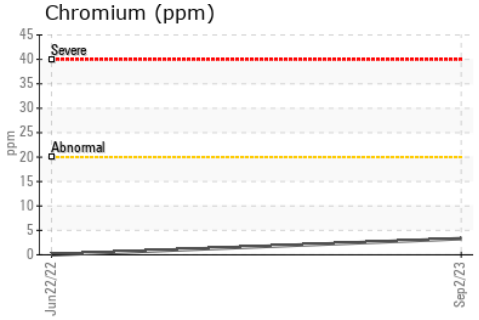
Lead (ppm)



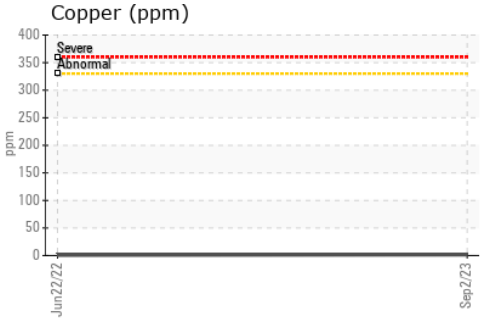
Aluminum (ppm)



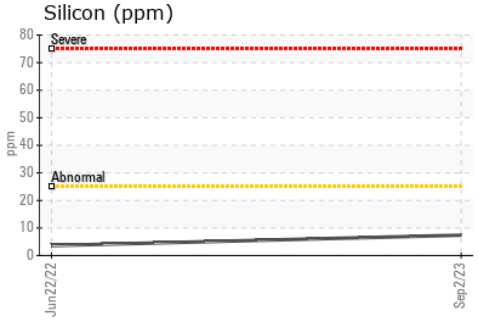
Chromium (ppm)



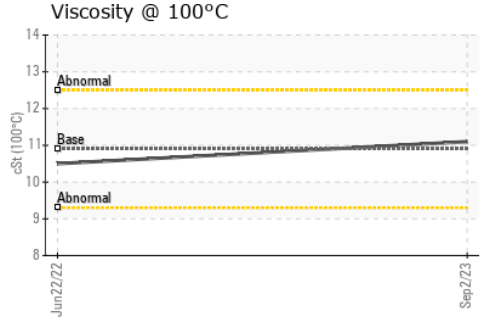
Copper (ppm)



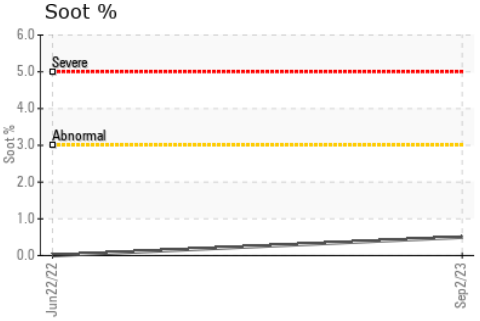
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853394 **Received** : 06 Sep 2023
Lab Number : 02580584 **Diagnosed** : 06 Sep 2023
Unique Number : 5633644 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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.

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