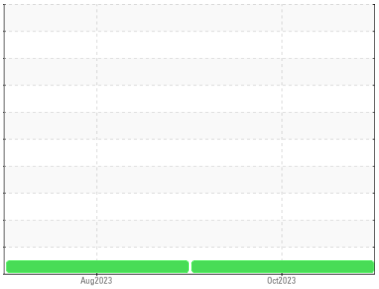
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[6326]
Machine Id
73
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

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		**WC0846135**	WC0790235	---
Sample Date		Client Info		**23 Oct 2023**	11 Aug 2023	---
Machine Age	mls	Client Info		**18927**	9398	---
Oil Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**31**	68	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	2	---
Nickel	ppm	ASTM D5185(m)	>2	**0**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**9**	12	---
Lead	ppm	ASTM D5185(m)	>40	**2**	4	---
Copper	ppm	ASTM D5185(m)	>330	**6**	32	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	3	---
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**	39	---
Barium	ppm	ASTM D5185(m)	10	**<1**	6	---
Molybdenum	ppm	ASTM D5185(m)	100	**2**	10	---
Manganese	ppm	ASTM D5185(m)		**<1**	6	---
Magnesium	ppm	ASTM D5185(m)	450	**662**	724	---
Calcium	ppm	ASTM D5185(m)	3000	**1424**	1359	---
Phosphorus	ppm	ASTM D5185(m)	1150	**702**	754	---
Zinc	ppm	ASTM D5185(m)	1350	**799**	818	---
Sulfur	ppm	ASTM D5185(m)	4250	**2480**	2400	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**11**	43	---
Sodium	ppm	ASTM D5185(m)		**4**	7	---
Potassium	ppm	ASTM D5185(m)	>20	**28**	44	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.1**	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.9**	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.3**	24.0	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**25.3**	20.9	---

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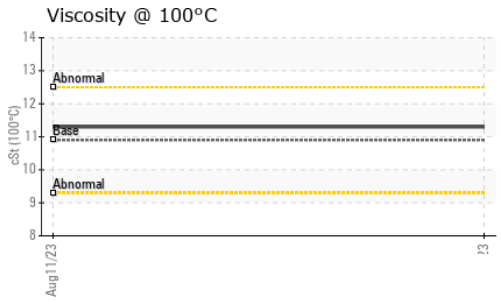
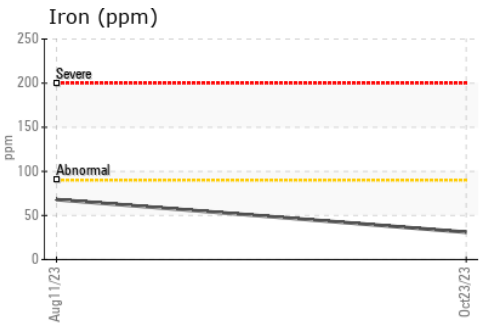
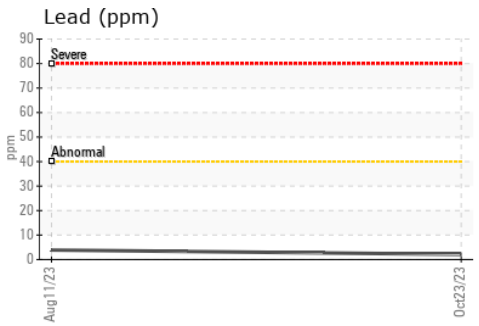


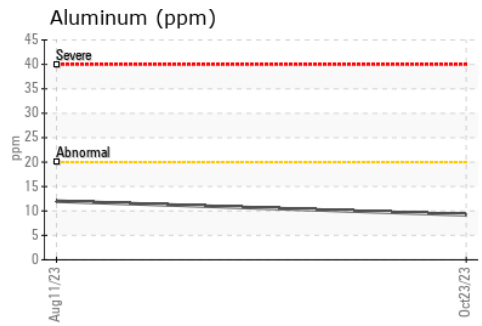
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

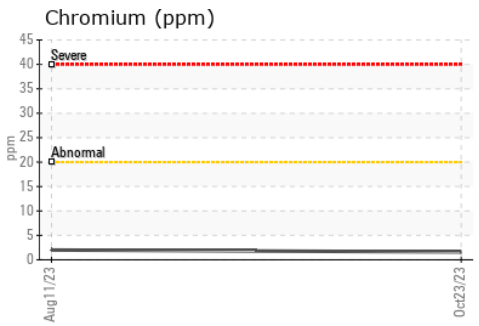
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.3**	11.3	---

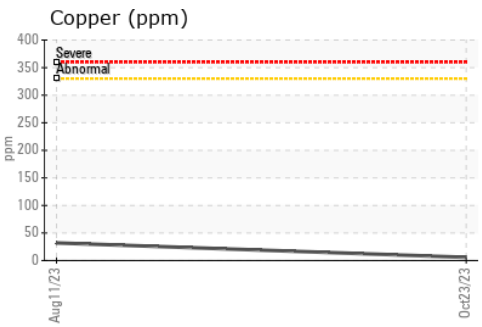
GRAPHS

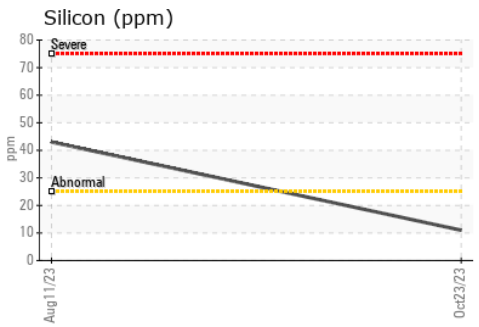


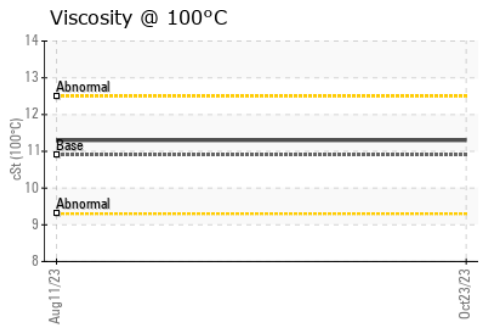


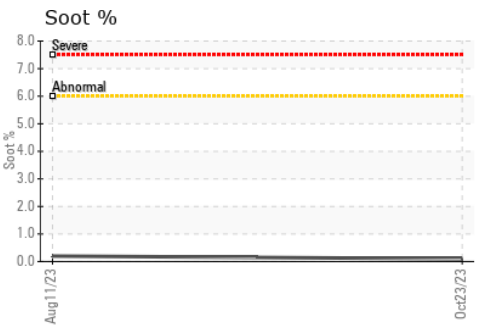












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0846135 **Received** : 25 Oct 2023
Lab Number : 02591605 **Diagnosed** : 25 Oct 2023
Unique Number : 5668684 **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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