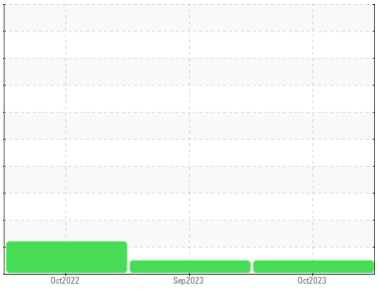
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[41770632]
Machine Id
9689
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		**WC0853329**	WC0853393	WC0737960
Sample Date		Client Info		**14 Oct 2023**	02 Sep 2023	29 Oct 2022
Machine Age	kms	Client Info		**73805**	0	18071
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	▲ 2.6
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**46**	21	68
Chromium	ppm	ASTM D5185(m)	>20	**1**	<1	2
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**33**	10	27
Lead	ppm	ASTM D5185(m)	>40	**<1**	0	<1
Copper	ppm	ASTM D5185(m)	>330	**2**	1	15
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

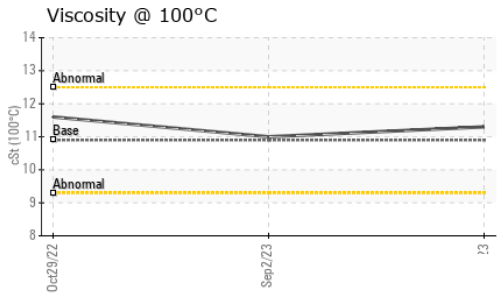
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**31**	36	20
Barium	ppm	ASTM D5185(m)	10	**<1**	0	6
Molybdenum	ppm	ASTM D5185(m)	100	**2**	2	48
Manganese	ppm	ASTM D5185(m)		**<1**	<1	7
Magnesium	ppm	ASTM D5185(m)	450	**771**	705	788
Calcium	ppm	ASTM D5185(m)	3000	**1402**	1280	1224
Phosphorus	ppm	ASTM D5185(m)	1150	**703**	677	714
Zinc	ppm	ASTM D5185(m)	1350	**809**	732	810
Sulfur	ppm	ASTM D5185(m)	4250	**2521**	2379	1917
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**6**	4	17
Sodium	ppm	ASTM D5185(m)		**4**	3	6
Potassium	ppm	ASTM D5185(m)	>20	**69**	25	67

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.6**	0.4	0.6
Nitration	Abs/cm	ASTM D7624*	>20	**11.8**	10.2	13.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.5**	22.8	26.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**22.7**	18.0	27.3

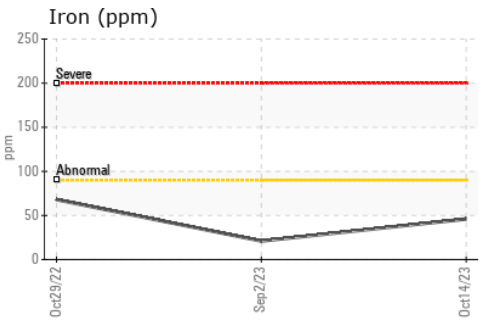
OIL ANALYSIS REPORT

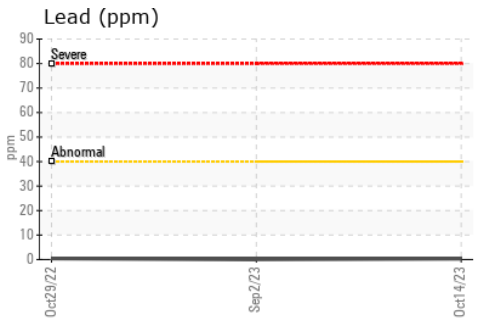


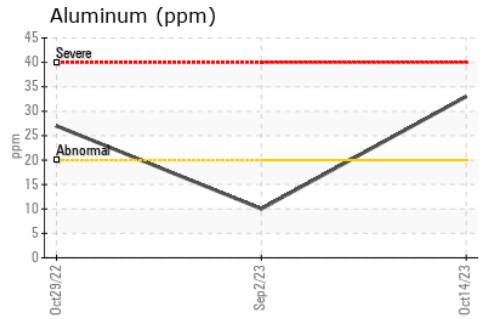
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

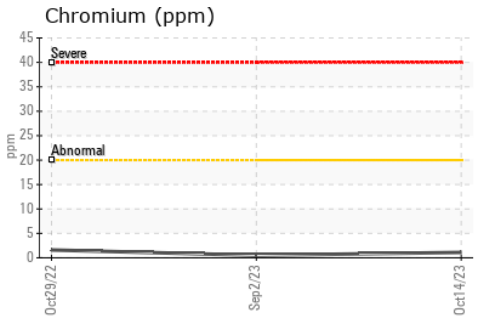
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.3**	11.0	▲ 11.6

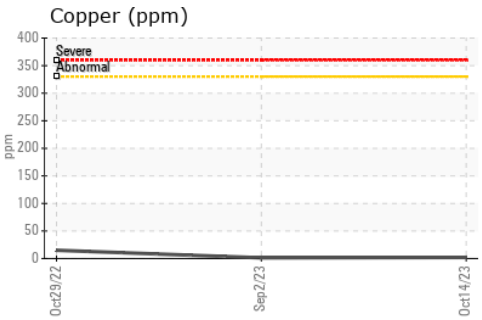
GRAPHS

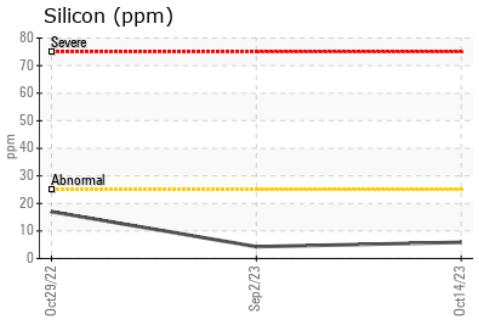


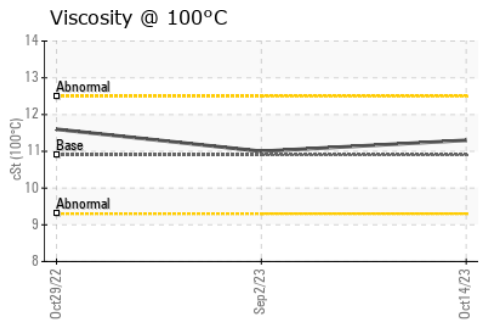


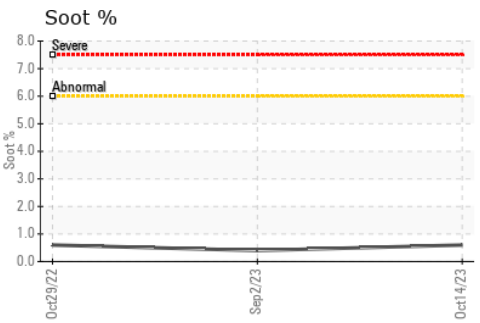












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853329 **Received** : 17 Oct 2023
Lab Number : 02589516 **Diagnosed** : 17 Oct 2023
Unique Number : 5658582 **Diagnostician** : Wes Davis
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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