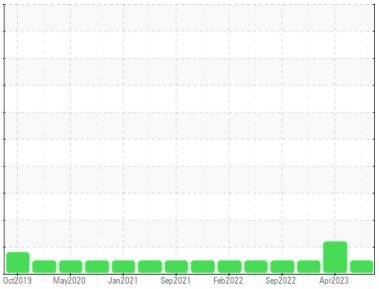
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[41022214]
Machine Id
T9421
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		**WC0853321**	WC0796645	WC0702878
Sample Date		Client Info		**27 Aug 2023**	01 Apr 2023	18 Dec 2022
Machine Age	kms	Client Info		**543397**	490699	425055
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	**<1.0**	▲ 3	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**25**	57	19
Chromium	ppm	ASTM D5185(m)	>20	**1**	4	1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**9**	8	3
Lead	ppm	ASTM D5185(m)	>40	**5**	5	4
Copper	ppm	ASTM D5185(m)	>330	**1**	4	<1
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
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	**32**	22	27
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**4**	4	4
Manganese	ppm	ASTM D5185(m)		**<1**	1	<1
Magnesium	ppm	ASTM D5185(m)	450	**726**	719	764
Calcium	ppm	ASTM D5185(m)	3000	**1332**	1410	1465
Phosphorus	ppm	ASTM D5185(m)	1150	**720**	747	770
Zinc	ppm	ASTM D5185(m)	1350	**770**	794	817
Sulfur	ppm	ASTM D5185(m)	4250	**2480**	2534	2590
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	8	5
Sodium	ppm	ASTM D5185(m)		**3**	5	3
Potassium	ppm	ASTM D5185(m)	>20	**19**	4	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.2**	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**11.4**	13.5	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.5**	31.7	25.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**21.7**	27.1	21.0

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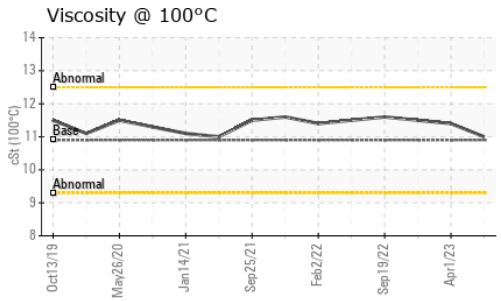
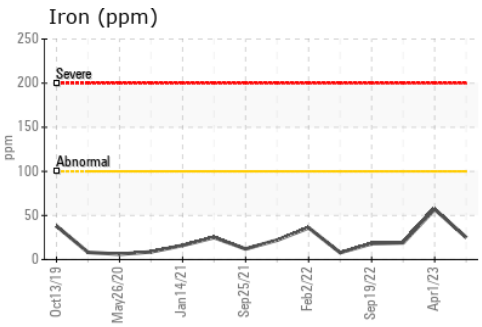
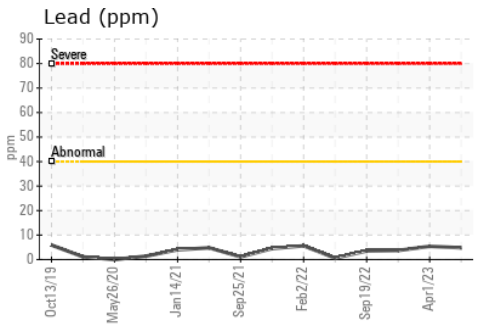


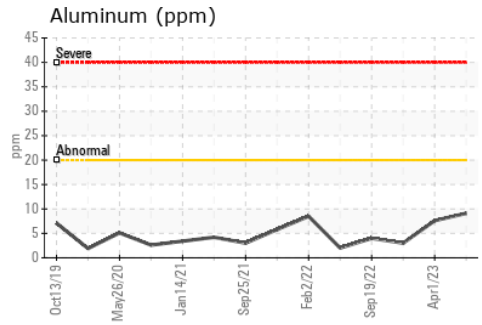
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

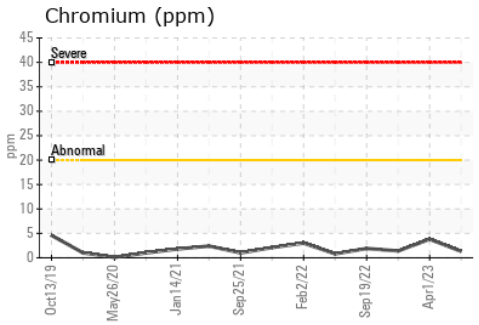
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.0**	▲ 11.4	11.5

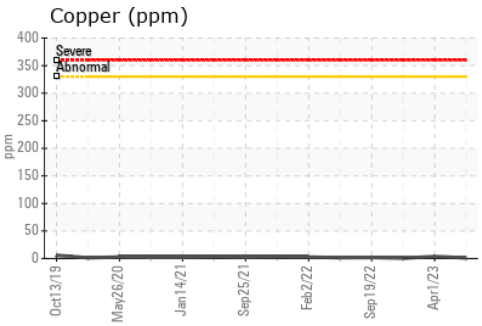
GRAPHS

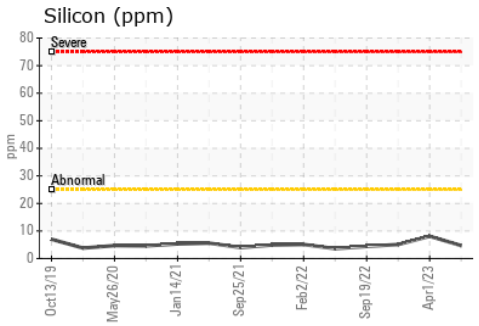


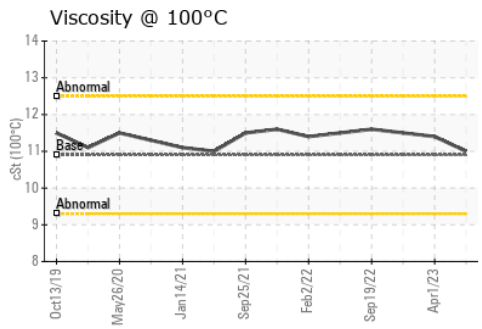


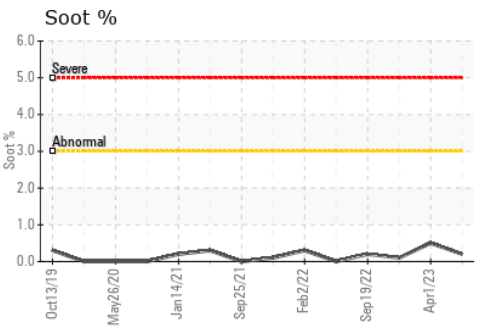












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853321 **Received** : 30 Aug 2023
Lab Number : 02579247 **Diagnosed** : 30 Aug 2023
Unique Number : 5632307 **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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