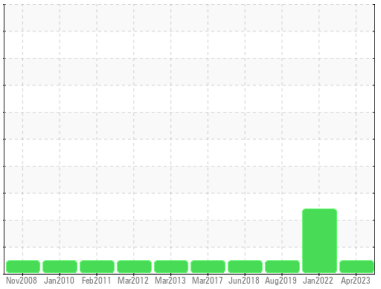
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
HUMBER RIVER HOSPITAL [78787]
Machine Id
ONAN G990954881 HRH - 200 CHURCH ST - 450KW at 600V
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

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

Contamination
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		**WA0018718**	WA0017334	WA0014272
Sample Date		Client Info		**18 Apr 2023**	20 Jan 2022	14 Aug 2019
Machine Age	hrs	Client Info		**921**	844	693
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**2**	3	2
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>40	**<1**	1	<1
Copper	ppm	ASTM D5185(m)	>330	**2**	4	10
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**<1**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	5	13
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**3**	12	46
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**43**	197	720
Calcium	ppm	ASTM D5185(m)		**2388**	2059	1532
Phosphorus	ppm	ASTM D5185(m)		**969**	992	1104
Zinc	ppm	ASTM D5185(m)		**1015**	1141	1265
Sulfur	ppm	ASTM D5185(m)		**3303**	3297	3427
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**3**	5	3
Sodium	ppm	ASTM D5185(m)	>406	**2**	15	1
Potassium	ppm	ASTM D5185(m)	>20	**1**	16	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.3**	6.4	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**15.9**	16.7	20.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**9.0**	11.0	14.4

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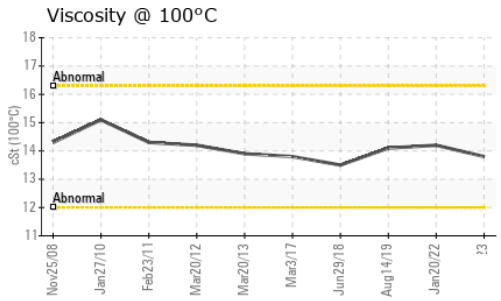
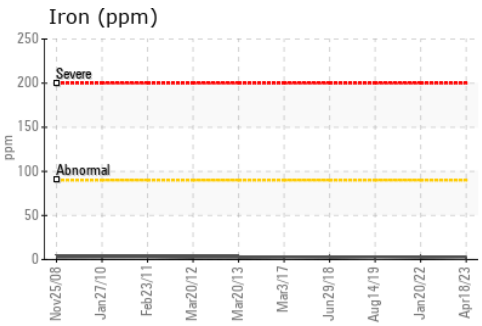
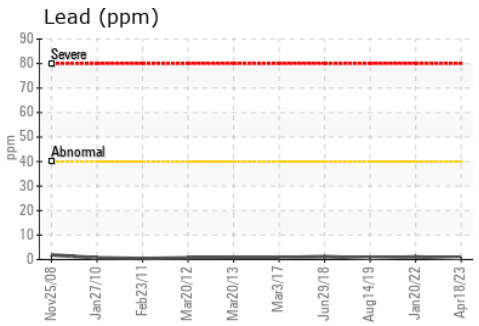


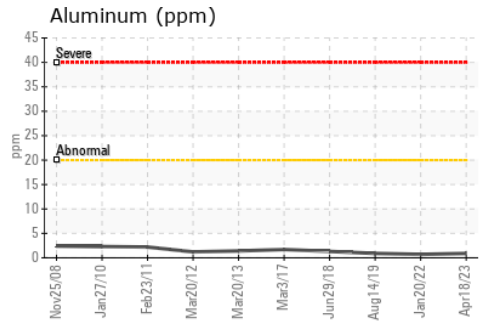
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	.2%	NEG
Free Water	scalar	Visual*		**NEG**	▲ 1%	NEG

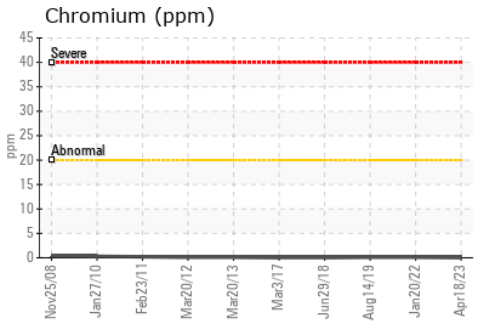
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		**13.8**	14.2	14.1

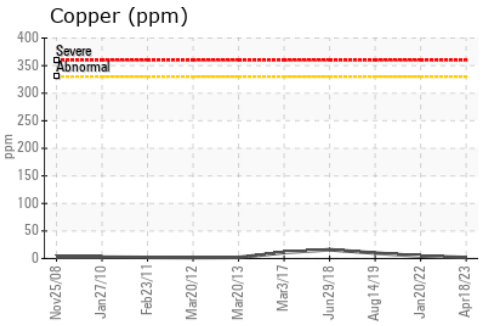
GRAPHS

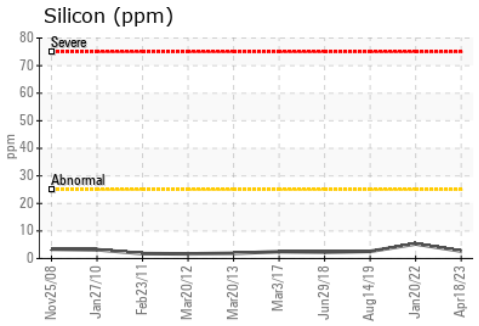


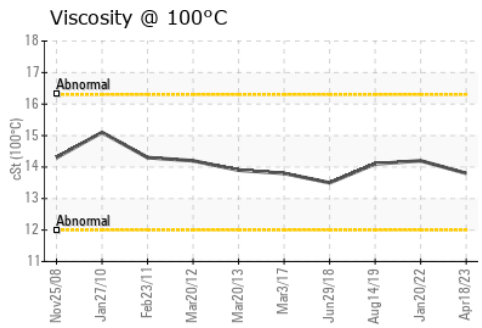


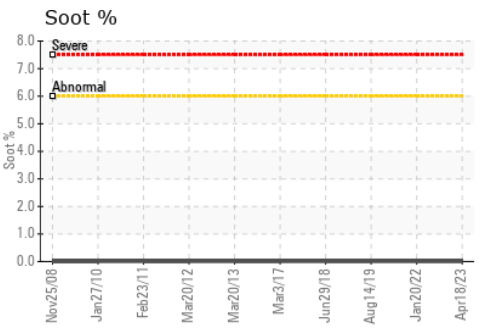












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0018718 **Received** : 03 May 2023
Lab Number : 02554978 **Diagnosed** : 03 May 2023
Unique Number : 5567993 **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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