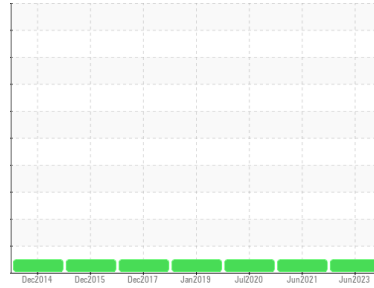




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
MTU BY DETROIT W0564
 Component
Diesel Engine
 Fluid
DISEL ENGINE OIL SAE 15W40 (55 LTR)

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		WC0764010	WC0582027	WC0442645
Sample Date	Client Info		29 Jun 2023	11 Jun 2021	08 Jul 2020
Machine Age	hrs	Client Info	122	105	100
Oil Age	hrs	Client Info	11	11	3
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	1	1	1
Chromium	ppm	ASTM D5185(m) >20	0	0	0
Nickel	ppm	ASTM D5185(m) >4	0	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	<1	1	1
Lead	ppm	ASTM D5185(m) >40	0	<1	0
Copper	ppm	ASTM D5185(m) >330	1	4	4
Tin	ppm	ASTM D5185(m) >15	0	0	0
Antimony	ppm	ASTM D5185(m)	0	<1	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	27	91	91
Barium	ppm	ASTM D5185(m) 10	0	0	0
Molybdenum	ppm	ASTM D5185(m) 100	20	70	67
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m) 450	19	17	17
Calcium	ppm	ASTM D5185(m) 3000	2137	2146	2038
Phosphorus	ppm	ASTM D5185(m) 1150	952	1038	973
Zinc	ppm	ASTM D5185(m) 1350	1022	1131	1100
Sulfur	ppm	ASTM D5185(m) 4250	3133	3266	3142
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	2	6	6
Sodium	ppm	ASTM D5185(m) >158	2	2	<1
Potassium	ppm	ASTM D5185(m) >20	1	2	2

INFRA-RED

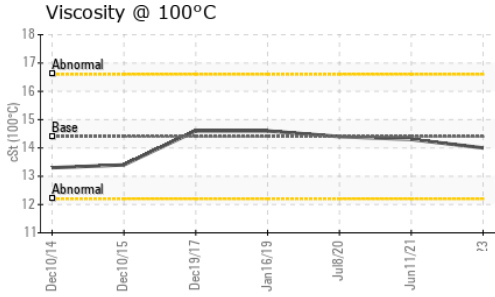
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	5.5	7.1	8.2
Sulfation	Abs/.1mm	ASTM D7415* >30	15.5	17.1	22.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	8.6	13.1	12.9



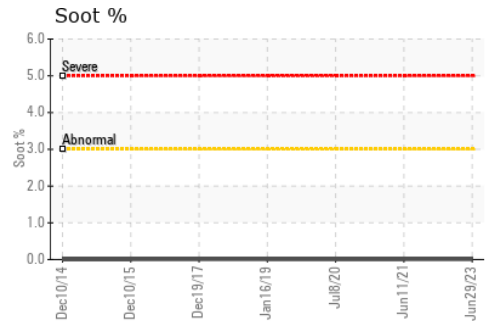
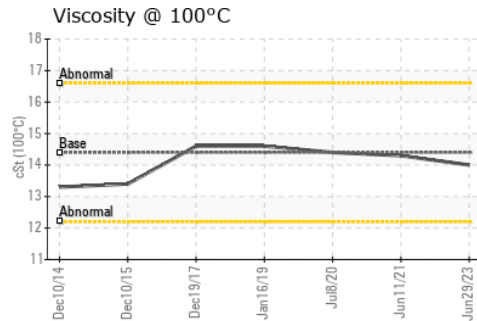
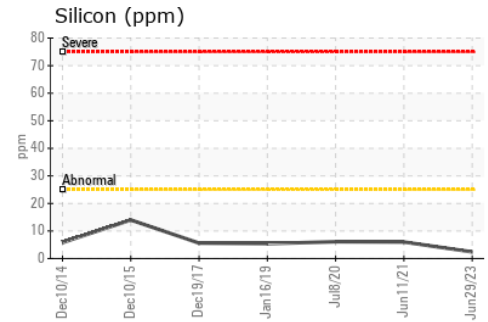
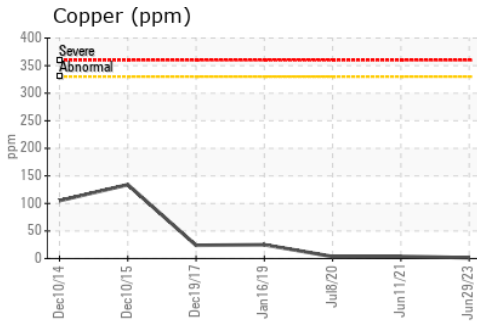
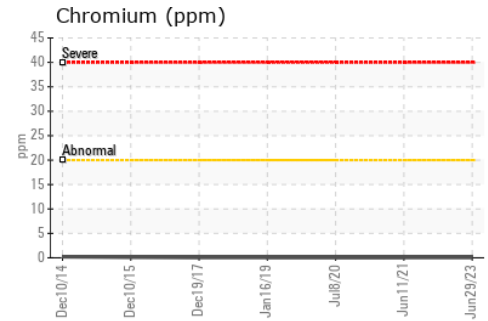
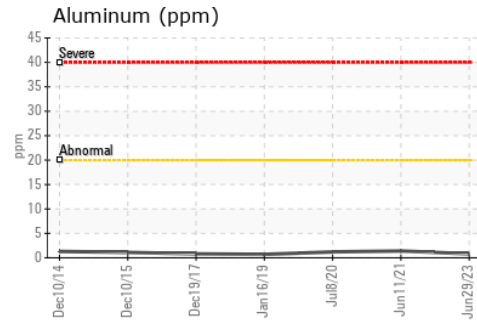
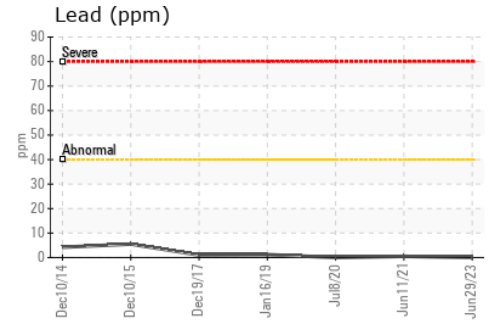
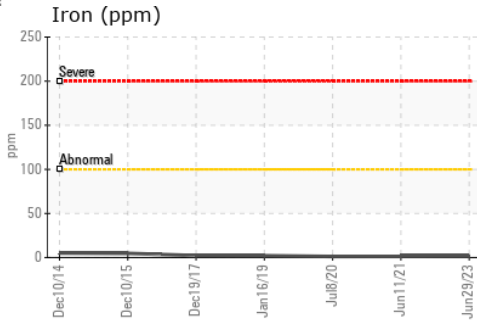
OIL ANALYSIS REPORT



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)	14.4	14.0	14.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0764010 **Received** : 10 Aug 2023
Lab Number : 02575095 **Diagnosed** : 10 Aug 2023
Unique Number : 5620146 **Diagnostician** : Wes Davis
Test Package : MOB 1

GENCARE SERVICES LTD.
 360 SOVEREIGN ROAD
 LONDON, ON
 CA N6M 1A8
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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.