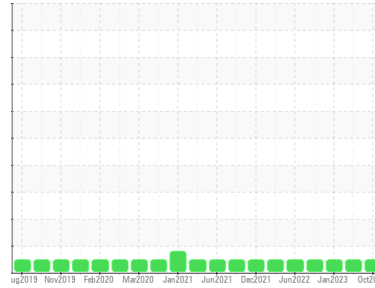




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
NOVA 1713

Component
Natural Gas Engine

Fluid
VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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		WC0849770	WC0791279	WC0767279
Sample Date	Client Info		04 Oct 2023	30 Mar 2023	01 Jan 2023
Machine Age	kms	Client Info	0	322035	301395
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		N/A	Changed	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	12	12	12
Chromium	ppm	ASTM D5185(m) >4	<1	<1	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	1	2
Silver	ppm	ASTM D5185(m) >3	<1	<1	1
Aluminum	ppm	ASTM D5185(m) >9	2	2	2
Lead	ppm	ASTM D5185(m) >30	2	2	1
Copper	ppm	ASTM D5185(m) >35	10	13	15
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
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)	5	7	8
Barium	ppm	ASTM D5185(m)	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	61	54	56
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	931	840	852
Calcium	ppm	ASTM D5185(m)	1387	1361	1432
Phosphorus	ppm	ASTM D5185(m)	748	756	816
Zinc	ppm	ASTM D5185(m)	993	885	934
Sulfur	ppm	ASTM D5185(m)	2021	1927	2036
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	5	4	6
Sodium	ppm	ASTM D5185(m)	3	4	7
Potassium	ppm	ASTM D5185(m) >20	17	2	2
Glycol	%	ASTM D7922*	0.0	---	---

INFRA-RED

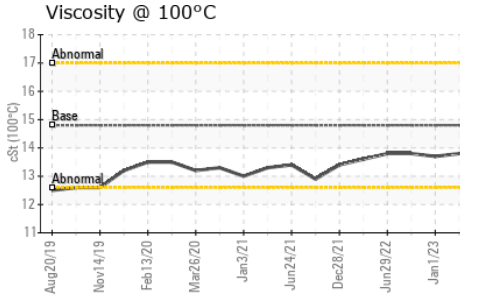
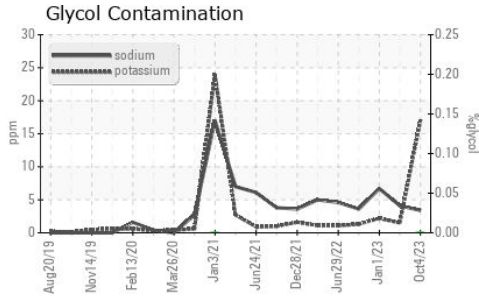
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	13.1	13.9	10.2
Sulfation	Abs/.1mm	ASTM D7415* >30	25.2	28.5	21.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	23.7	24.5	16.0



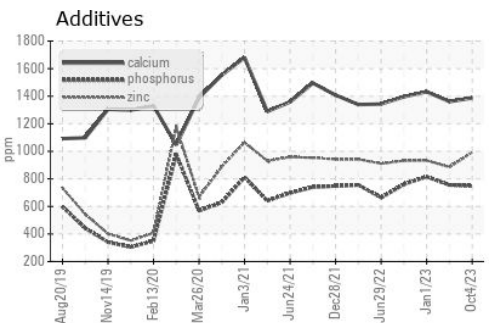
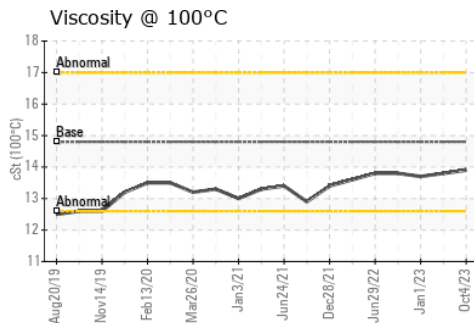
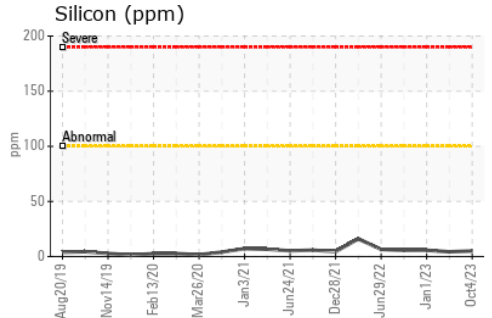
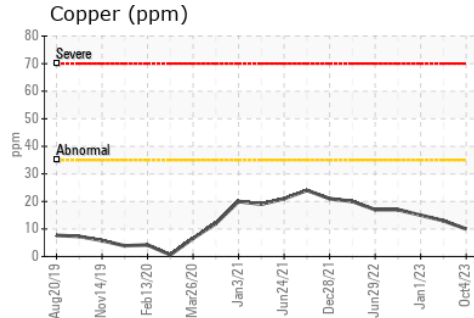
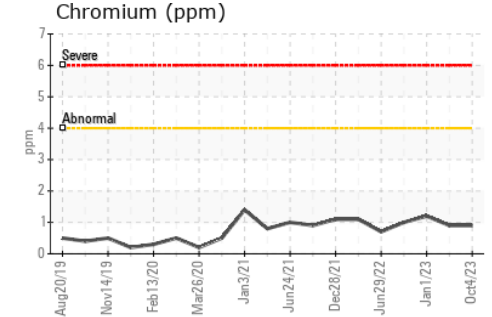
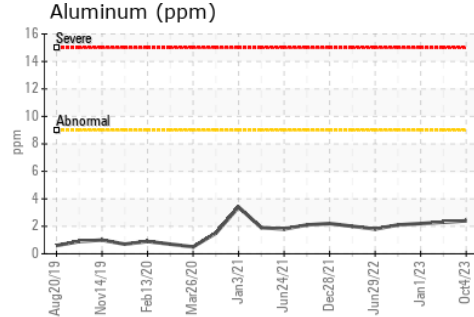
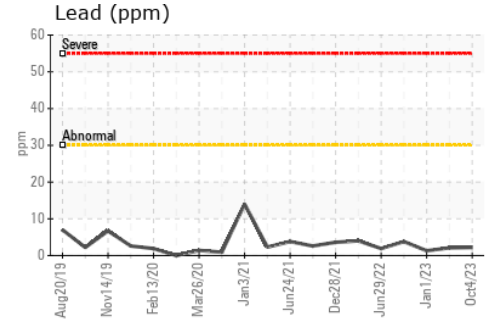
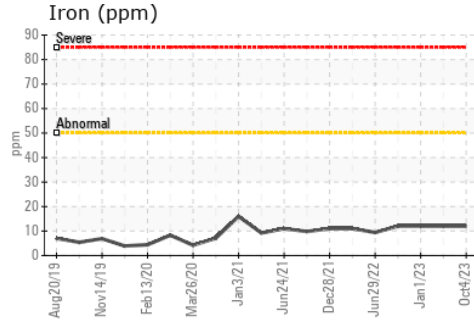
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	13.9	13.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0849770
Lab Number : 02588258
Unique Number : 5657324
Test Package : MOB 1 (Additional Tests: Glycol)

CITY OF HAMILTON
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM
 MOUNT HOPE, ON
 CA L0R 1W0
 Contact: Jeff Parr
 jeff.parr@hamilton.ca
 T: (905)546-2424
 F: (905)679-4502

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.