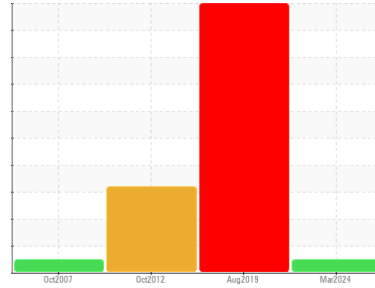


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[6100223760]
Machine Id
06D0308335

Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WA0019465	WC876927	WC381000
Sample Date	Client Info			07 Mar 2024	09 Aug 2019	05 Oct 2012
Machine Age	hrs	Client Info		2	0	204
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>3.0	<1.0	<1.0	<1.0
Water	WC Method		>0.2	NEG	NEG	NEG

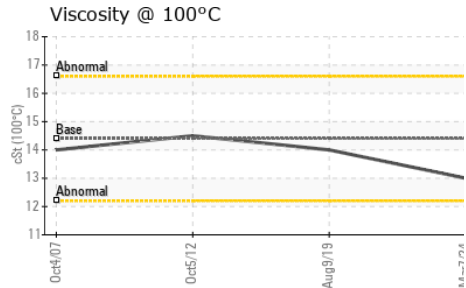
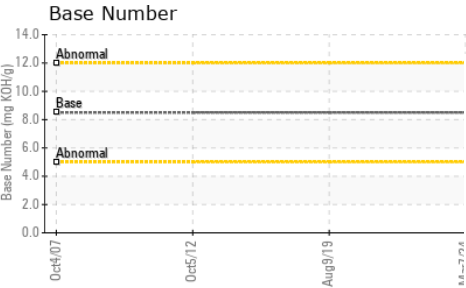
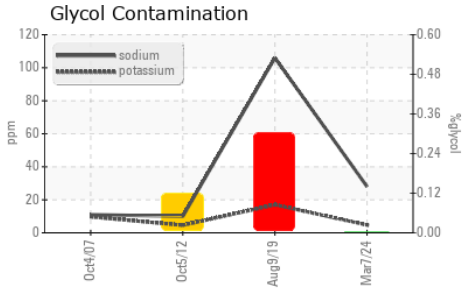
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>101	10	65	58
Chromium	ppm	ASTM D5185(m)	>16	<1	1	5
Nickel	ppm	ASTM D5185(m)	>6	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	46	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>21	1	2	2
Lead	ppm	ASTM D5185(m)	>41	8	17	16
Copper	ppm	ASTM D5185(m)	>21	25	143	167
Tin	ppm	ASTM D5185(m)	>13	20	36	17
Antimony	ppm	ASTM D5185(m)		0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	<1	1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<1	10	65
Barium	ppm	ASTM D5185(m)	10	0	<1	2
Molybdenum	ppm	ASTM D5185(m)	100	102	65	138
Manganese	ppm	ASTM D5185(m)		<1	2	2
Magnesium	ppm	ASTM D5185(m)	450	14	336	72
Calcium	ppm	ASTM D5185(m)	3000	2396	1298	3319
Phosphorus	ppm	ASTM D5185(m)	1150	986	683	1084
Zinc	ppm	ASTM D5185(m)	1350	1028	1174	1632
Sulfur	ppm	ASTM D5185(m)	4250	4908	2480	5850
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>16	12	21	23
Sodium	ppm	ASTM D5185(m)	>216	28	106	10
Potassium	ppm	ASTM D5185(m)	>20	5	17	5
Glycol	%	ASTM D7922*		0.0	0.301	0.12

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>0.8	0	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	3.8	6.4	8.2
Sulfation	Abs/1mm	ASTM D7415*	>30	13.8	19.1	35.5

OIL ANALYSIS REPORT

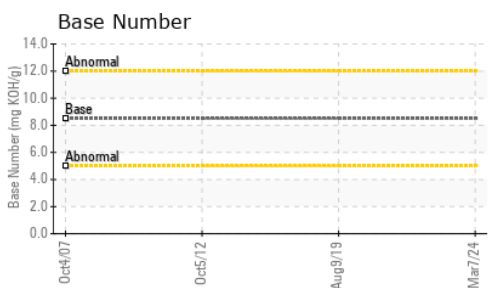
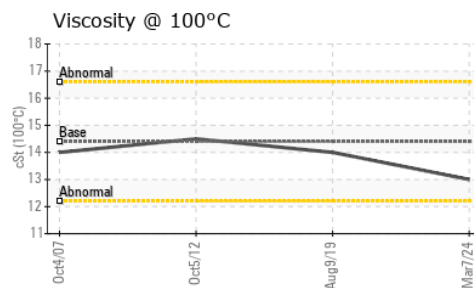
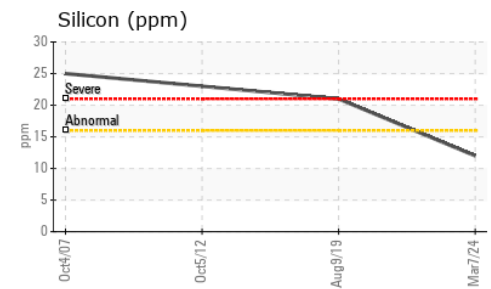
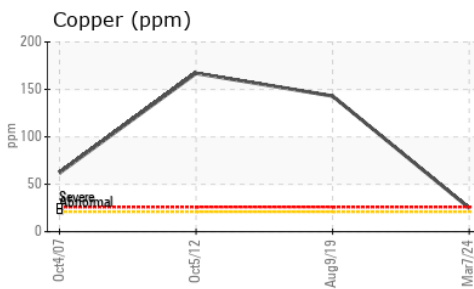
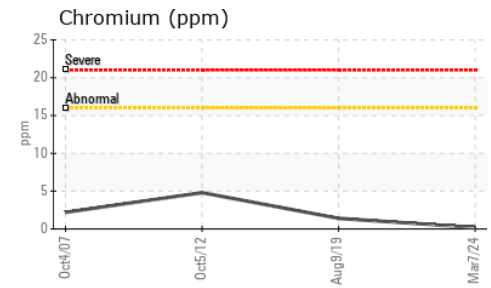
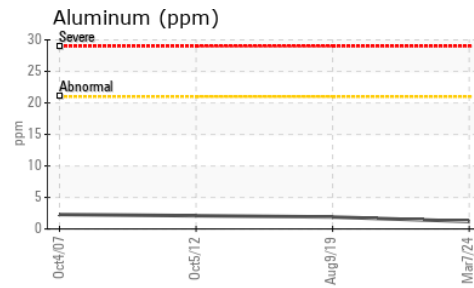
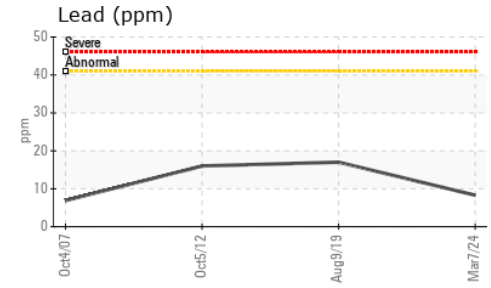
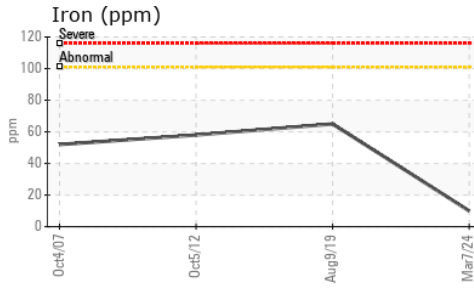


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.4	13.1, 16.5
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	8.69	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.0	14.0, 14.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019465
Lab Number : 02621043
Unique Number : 5746162
Test Package : MOB 2

DEPARTMENT OF NATIONAL DEFENSE
 MGEN.GEORGE R.PEARKE'S BUILDING
 OTTAWA, ON
 CA K1A 0K2
 Contact: Jean-Marc Beaudoin
 JEAN-MARC.BEAUDOIN@Forces.gc.ca
 T: (819)993-0911
 F: (819)997-9989

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.