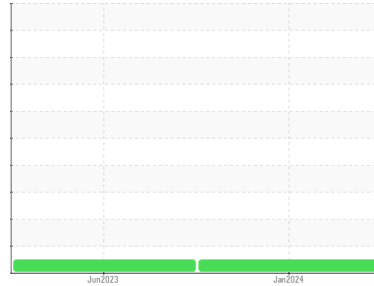




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
CFR#72302 [202157]
 Machine Id
LEOPARD 2A4M

Component
Diesel Engine
 Fluid
MOBIL DELVAC EXTREME 15W40 (--- 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		WC0848508	WC0848509	---
Sample Date	Client Info		02 Jan 2024	15 Jun 2023	---
Machine Age	hrs	Client Info	7	5	---
Oil Age	hrs	Client Info	2	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>101	7	35	---
Chromium	ppm	ASTM D5185(m)	>16	<1	1	---
Nickel	ppm	ASTM D5185(m)	>6	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	2	---
Aluminum	ppm	ASTM D5185(m)	>21	2	4	---
Lead	ppm	ASTM D5185(m)	>41	2	13	---
Copper	ppm	ASTM D5185(m)	>21	2	13	---
Tin	ppm	ASTM D5185(m)	>13	0	1	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	4	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		40	5	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		45	67	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		607	822	---
Calcium	ppm	ASTM D5185(m)		1509	1621	---
Phosphorus	ppm	ASTM D5185(m)		811	1130	---
Zinc	ppm	ASTM D5185(m)		919	1275	---
Sulfur	ppm	ASTM D5185(m)		2387	3323	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

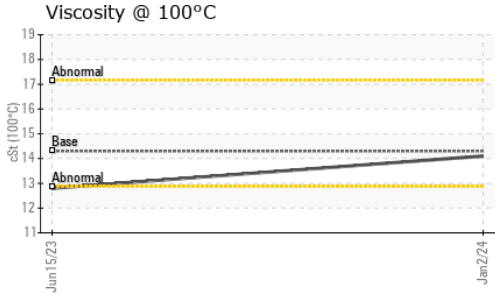
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>16	6	6	---
Sodium	ppm	ASTM D5185(m)		2	5	---
Potassium	ppm	ASTM D5185(m)	>20	4	1	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	4.5	6.6	---
Sulfation	Abs./1mm	ASTM D7415*	>30	20.1	19.7	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	15.8	13.3

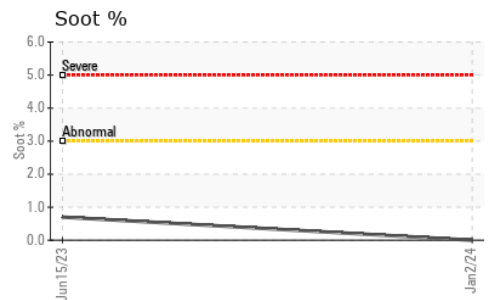
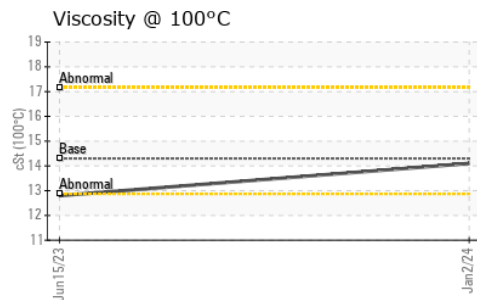
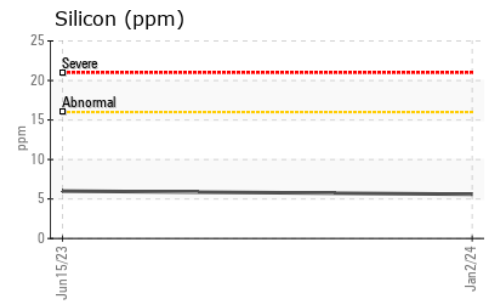
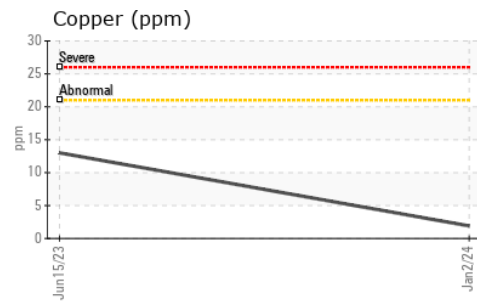
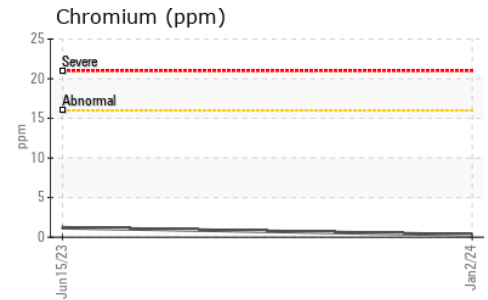
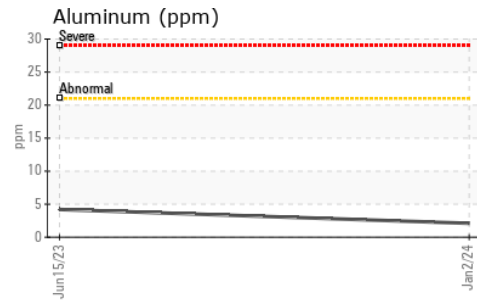
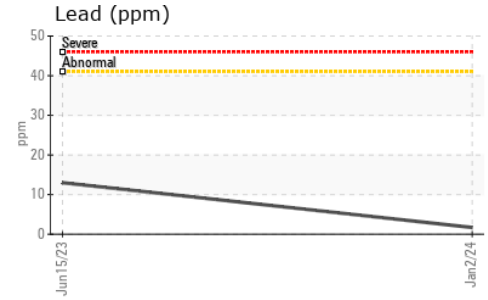
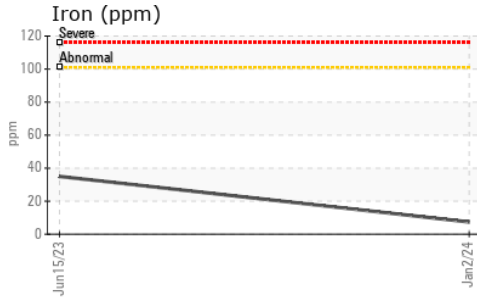
VISUAL

	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)	14.3	14.1	12.8

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **DEPARTMENT OF NATIONAL DEFENSE**
Sample No. : WC0848508 **Received** : 11 Jan 2024 **MGEN.GEORGE R.PEARKE'S BUILDING**
Lab Number : 02608119 **Diagnosed** : 12 Jan 2024 **OTTAWA, ON**
Unique Number : 5709205 **Diagnostician** : Kevin Marson **CA K1A 0K2**
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.

Contact: Philippe Charron
philippe.charron@forces.gc.ca

T: (514)252-2777

F: (819)997-9989