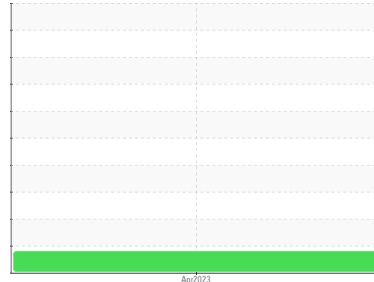




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area

[CONHER]

Machine Id

LAMO - Baseline Volvo mineral 15W40

Component

New (Unused) Oil

Fluid

Volvo mineral 15W40 CI-4 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0012342	---	---
Sample Date	Client Info		19 Apr 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ATTENTION	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<1	---	---
Chromium	ppm	ASTM D5185m	0	---	---
Nickel	ppm	ASTM D5185m	0	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m	1	---	---
Lead	ppm	ASTM D5185m	0	---	---
Copper	ppm	ASTM D5185m	0	---	---
Tin	ppm	ASTM D5185m	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	3	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	<1	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	27	---	---
Calcium	ppm	ASTM D5185m	3356	---	---
Phosphorus	ppm	ASTM D5185m	928	---	---
Zinc	ppm	ASTM D5185m	1142	---	---
Sulfur	ppm	ASTM D5185m	4957	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	4	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m >20	1	---	---

FLUID CLEANLINESS

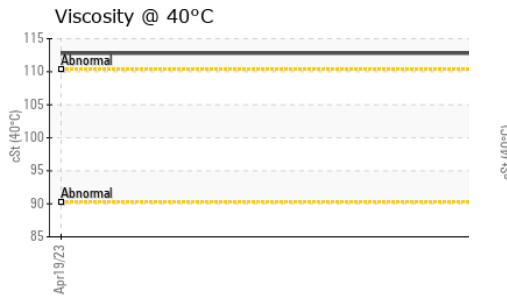
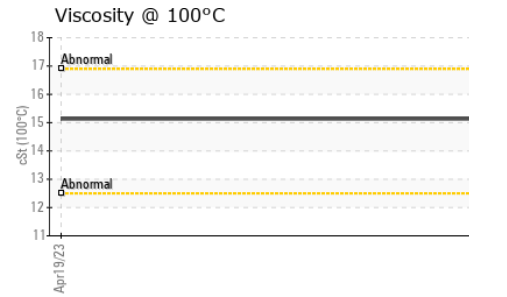
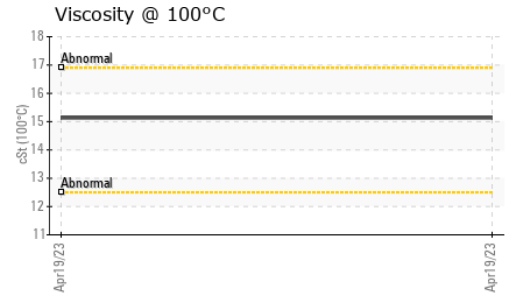
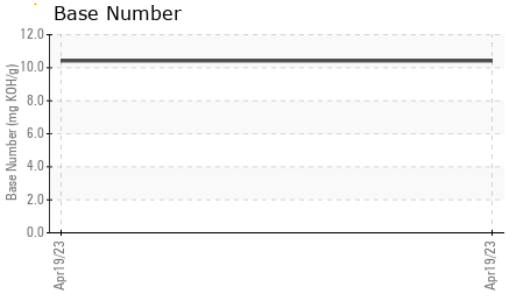
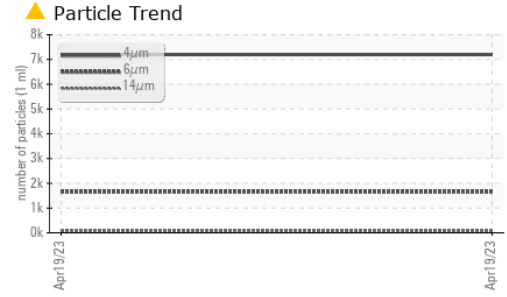
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7199	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1656	---	---
Particles >14µm	ASTM D7647	>160	71	---	---
Particles >21µm	ASTM D7647	>40	12	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>17/14	▲ 18/13	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Base Number (BN)	mg KOH/g	ASTM D2896	10.42	---	---



OIL ANALYSIS REPORT

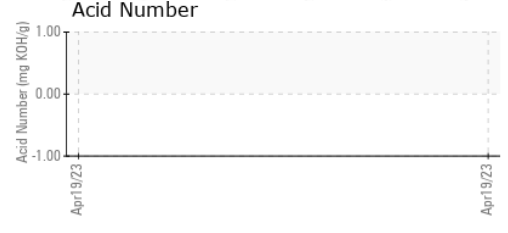
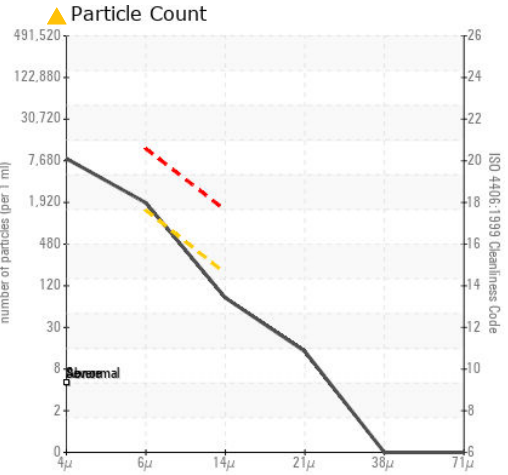
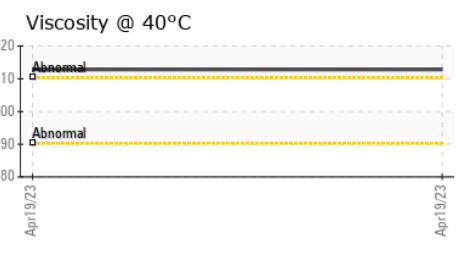
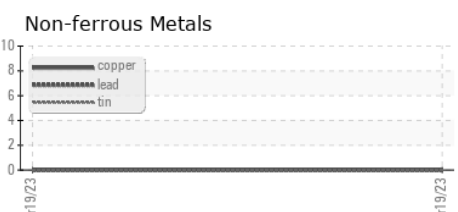
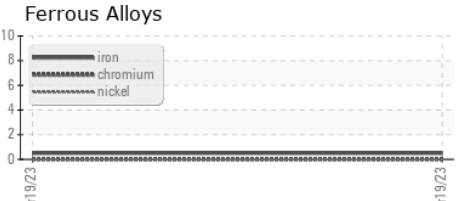


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	112.8	---	---
Visc @ 100°C	cSt	ASTM D445	15.13	---	---
Viscosity Index (VI)	Scale	ASTM D2270	139	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012342 **Received** : 27 Apr 2023
Lab Number : 05832279 **Diagnosed** : 01 May 2023
Unique Number : 10445772 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, TBN, V) **Contact:** ANDRES MONROY
 To discuss this sample report, contact Customer Service at 1-800-237-1369. **andres.monroy@cmoderna.com**
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **T:**
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **F:**

LAMO

NAVOJOA,
MX