



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[CONHER]

Machine Id

T. Orba baseline Valvoline Premium Blue 7800 15W40 CI-4 Plus

Component

New (Unused) Oil

Fluid

VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample. Please note that this is a corrected copy for laboratory data updates for FTIR data: oxidation. (Customer Sample Comment: Sample with Power-Up NNL-690 G. Please check compatibility with valvoline and powerup)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014570	---	---
Sample Date		Client Info		26 Apr 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Iron	ppm	ASTM D5185m		3	---	---
Chromium	ppm	ASTM D5185m		0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		1	---	---
Lead	ppm	ASTM D5185m		1	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

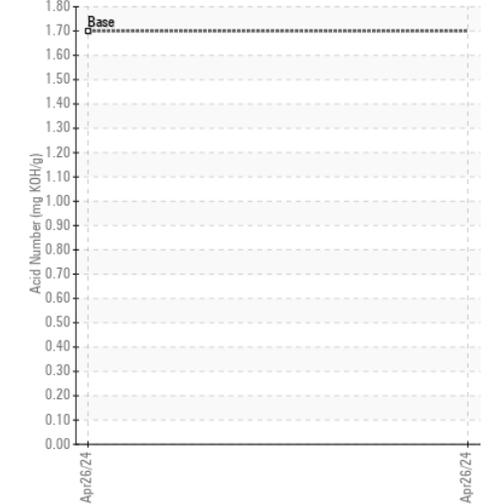
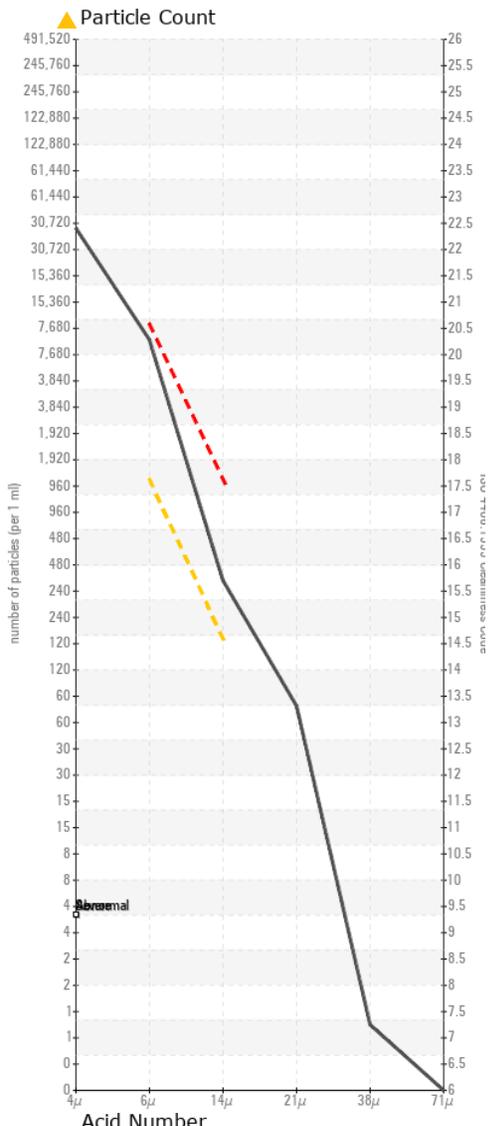
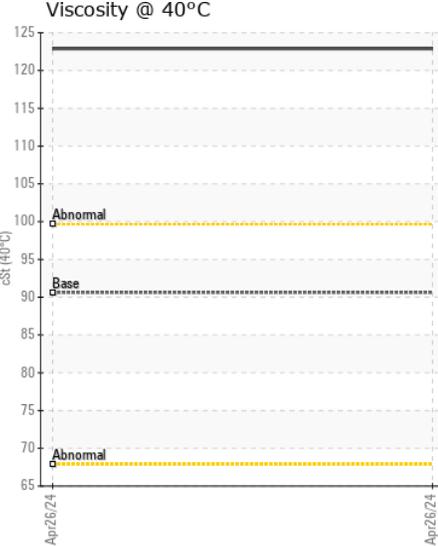
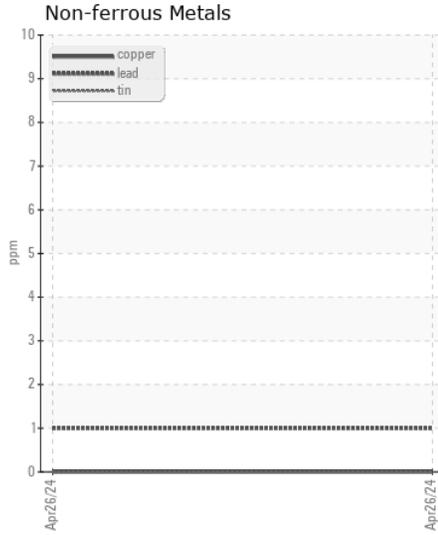
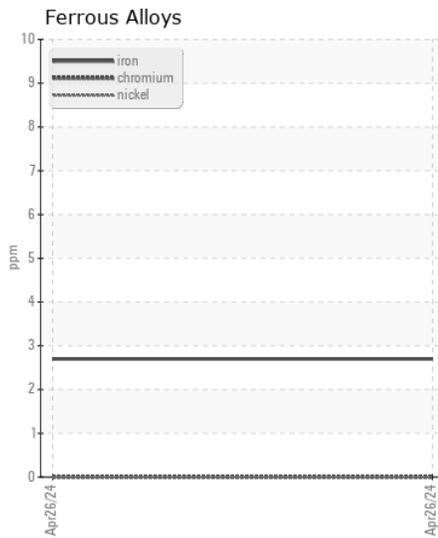
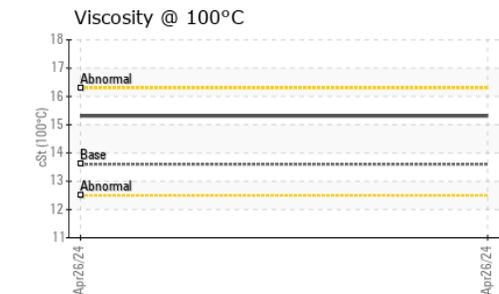
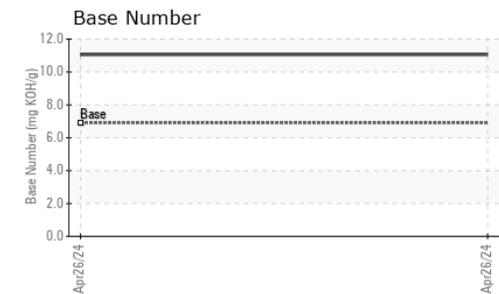
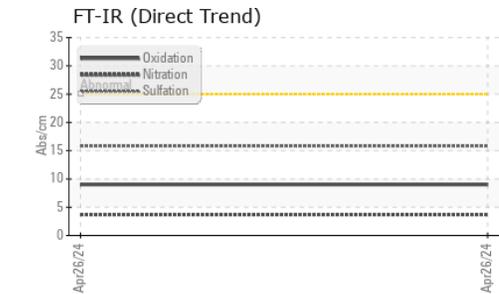
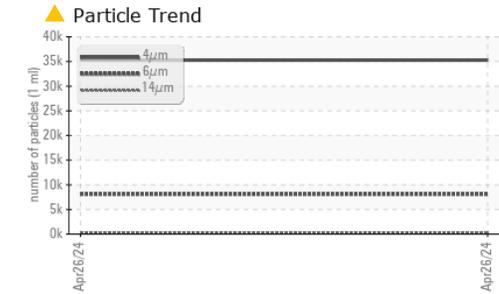
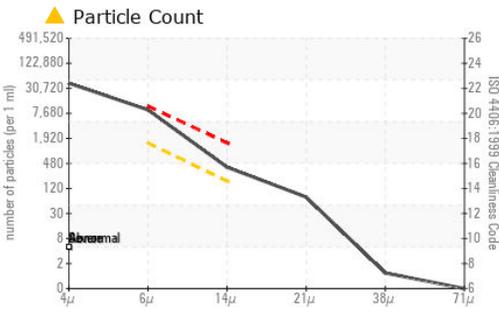
CONTAMINATION

There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m		5	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624		3.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415		15.8	---	---
Particles >4µm		ASTM D7647		35269	---	---
Particles >6µm		ASTM D7647	>1300	▲ 8112	---	---
Particles >14µm		ASTM D7647	>160	▲ 343	---	---
Particles >21µm		ASTM D7647	>40	▲ 66	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>17/14	▲ 20/16	---	---
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	---	---

FLUID CONDITION

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m	39	2	---	---
Barium	ppm	ASTM D5185m	1	0	---	---
Molybdenum	ppm	ASTM D5185m	49	1	---	---
Manganese	ppm	ASTM D5185m	1	<1	---	---
Magnesium	ppm	ASTM D5185m	616	34	---	---
Calcium	ppm	ASTM D5185m	1554	4072	---	---
Phosphorus	ppm	ASTM D5185m	899	1067	---	---
Zinc	ppm	ASTM D5185m	1069	1372	---	---
Sulfur	ppm	ASTM D5185m	2624	6278	---	---
Oxidation	Abs/.1mm	*ASTM D7414		9.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	11.06	---	---
Visc @ 40°C	cSt	ASTM D445	90.6	122.9	---	---
Visc @ 100°C	cSt	ASTM D445	13.6	15.31	---	---
Viscosity Index (VI)	Scale	ASTM D2270	136	129	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014570 **Received** : 09 May 2024
Lab Number : 06174526 **Tested** : 24 May 2024
Unique Number : 11020579 **Diagnosed** : 24 May 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VIContact)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
 Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com
 T: (526)622-1581 x:81
 F: x:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)