MOB II HIGH PERFORMANCE LUBRICANTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
24B0901_HDMO-705
Component
New (Unused) Oil
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

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

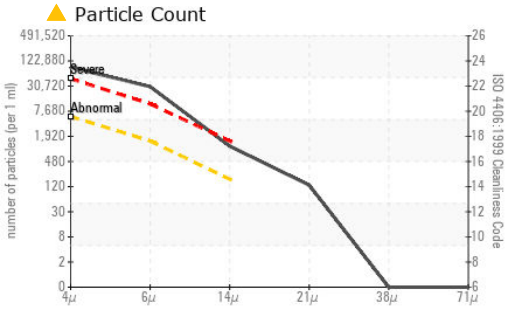
WEAR

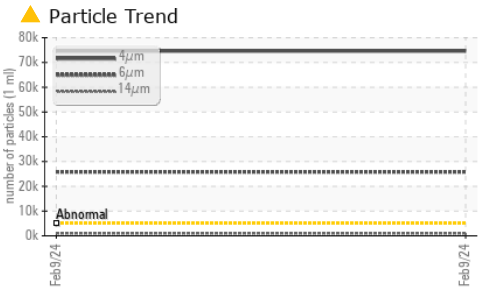
CONTAMINATION

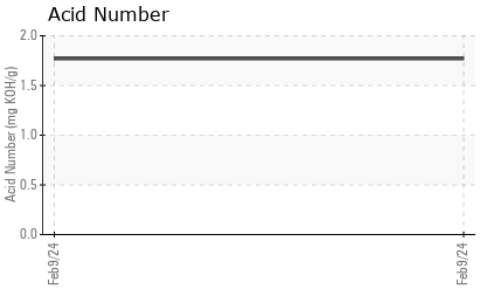
There is a high amount of particulates present in the oil.

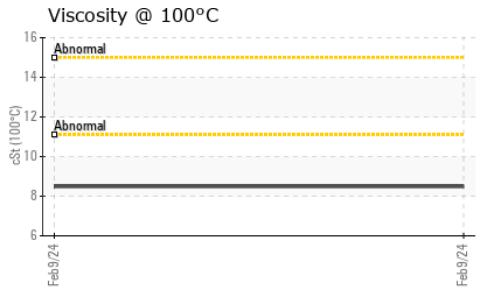
FLUID CONDITION

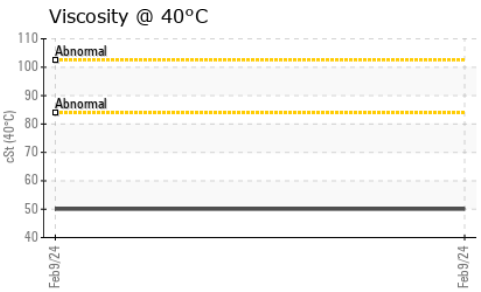
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0000918	---	---
Sample Date		Client Info		09 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m		<1	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		5	---	---
Lead	ppm	ASTM D5185m		0	---	---
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	---	---
Silicon	ppm	ASTM D5185m		18	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method		NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 74613	---	---
Particles >6µm		ASTM D7647	>1300	▲ 25796	---	---
Particles >14µm		ASTM D7647	>160	▲ 985	---	---
Particles >21µm		ASTM D7647	>40	▲ 115	---	---
Particles >38µm		ASTM D7647	>10	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/22/17	---	---
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	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		11	---	---
Molybdenum	ppm	ASTM D5185m		574	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		900	---	---
Calcium	ppm	ASTM D5185m		2360	---	---
Phosphorus	ppm	ASTM D5185m		1031	---	---
Zinc	ppm	ASTM D5185m		1132	---	---
Sulfur	ppm	ASTM D5185m		8472	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.77	---	---
Visc @ 40°C	cSt	ASTM D445		50.03	---	---
Visc @ 100°C	cSt	ASTM D445		8.49	---	---
Viscosity Index (VI)	Scale	ASTM D2270		146	---	---

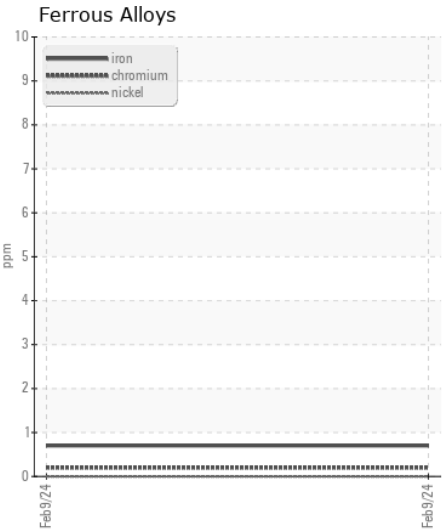


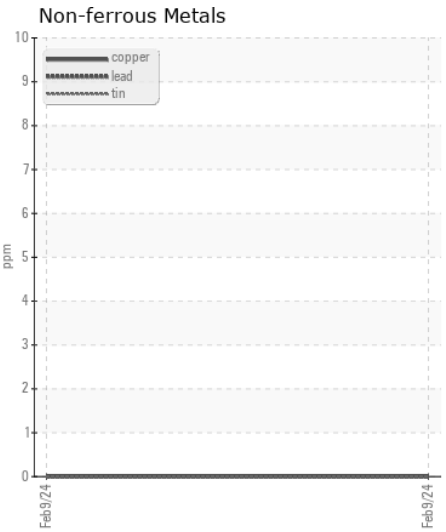


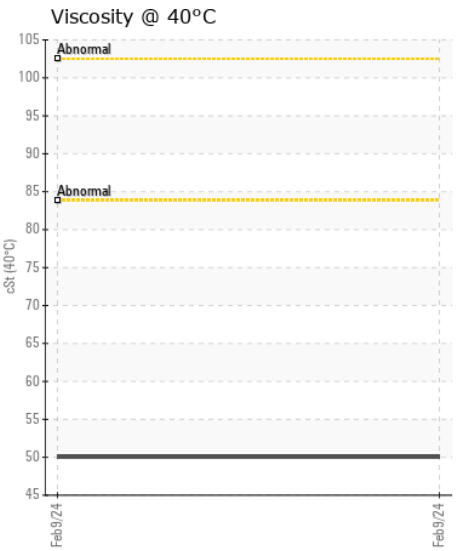


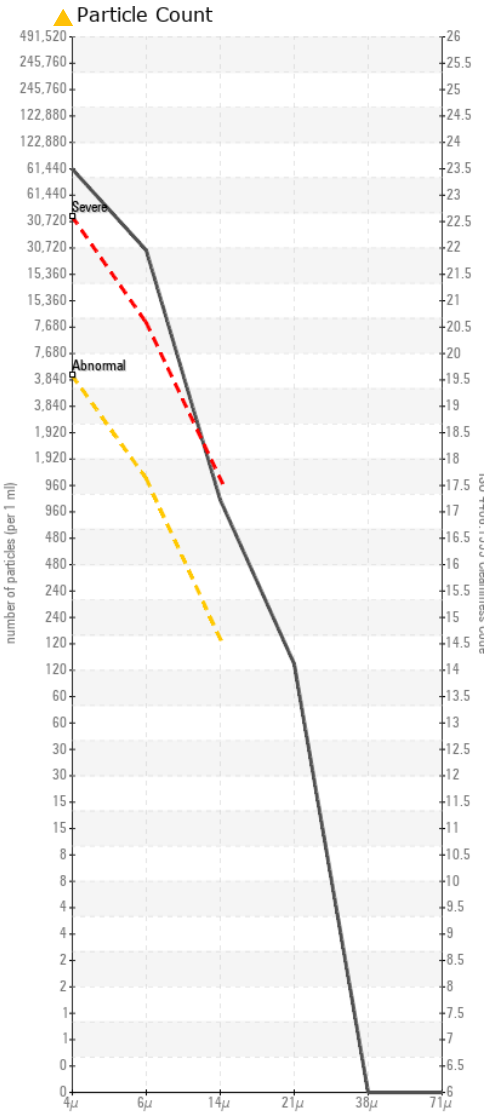


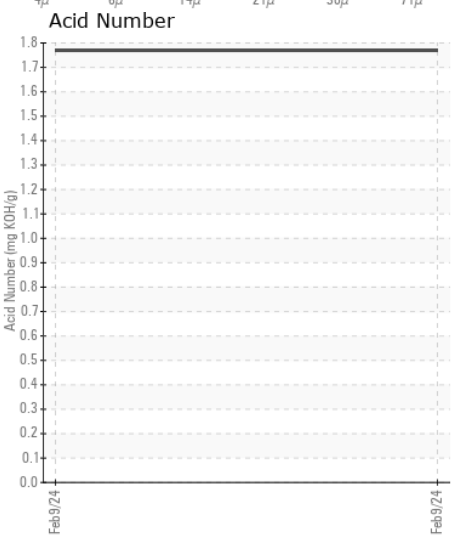












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0000918
Lab Number : 06087849
Unique Number : 10875294
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

Received : 13 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Jonathan Hester

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)

HIGH PERFORMANCE LUBRICANTS LLC
500 S SPRUCE ST
MANTENO, IL
US 60950
Contact: DAVID WARD
sampledata@hplubricants.com
T: (815)468-3535
F: x: