

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**001 - MOBIL DELVAC 1300 10W30**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- GAL)**

**DIAGNOSIS**

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

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PCA0115866</b>	---	---
Sample Date	Client Info	<b>01 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	<b>NEG</b>	---	---
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**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	<b>1</b>	---	---
Chromium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	<b>0</b>	---	---
Tin	ppm	ASTM D5185m	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m	<b>73</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>37</b>	---	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>483</b>	---	---
Calcium	ppm	ASTM D5185m	<b>1555</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>745</b>	---	---
Zinc	ppm	ASTM D5185m	<b>868</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>2435</b>	---	---

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	<b>4</b>	---	---
Sodium	ppm	ASTM D5185m	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---

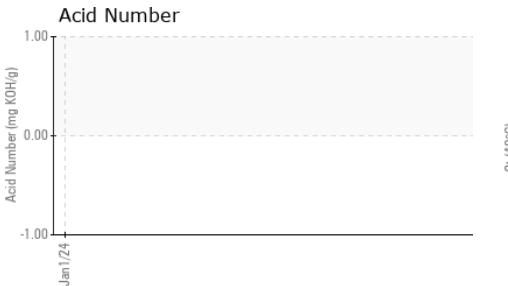
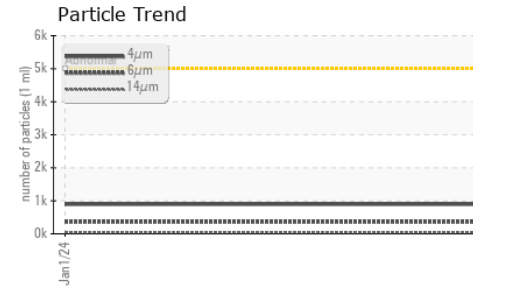
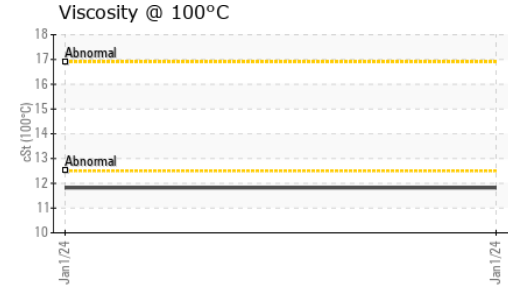
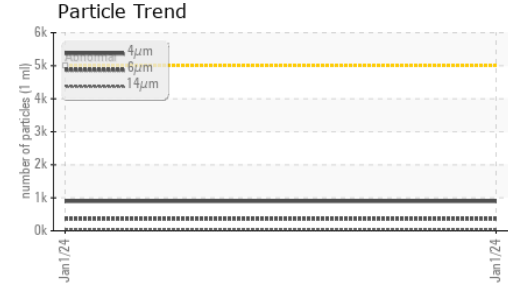
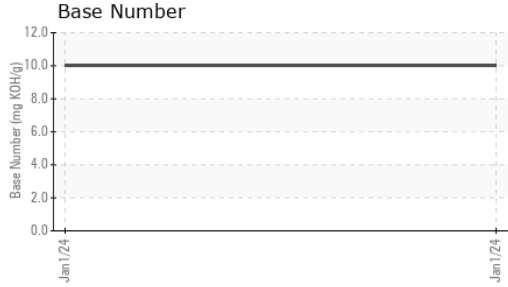
**FLUID CLEANLINESS** method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	<b>895</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>362</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>45</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>13</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/16/13</b>	---	---

**FLUID DEGRADATION** method limit/base current history1 history2

Base Number (BN)	mg KOH/g	ASTM D2896	<b>10.02</b>	---	---
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# OIL ANALYSIS REPORT

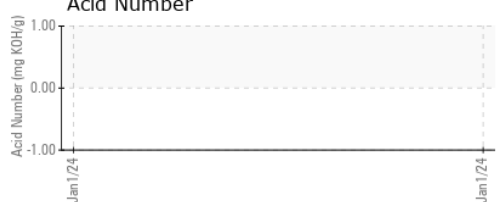
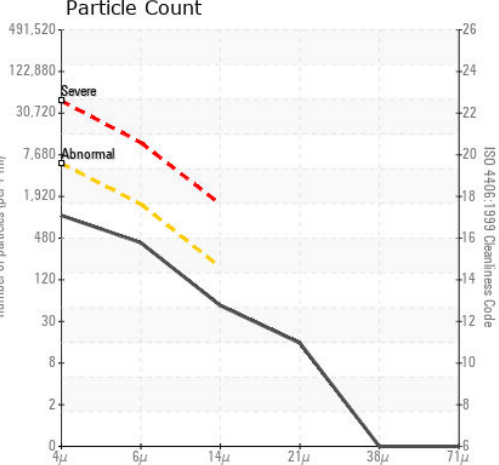
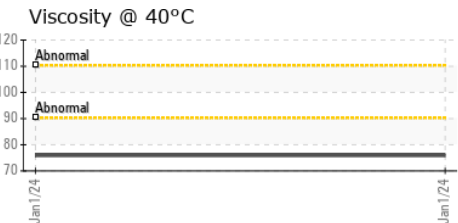
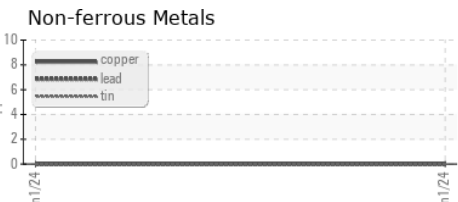
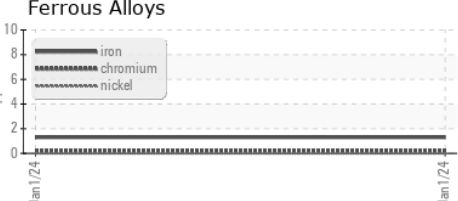


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	75.93	---	---
Visc @ 100°C	cSt	ASTM D445	11.82	---	---
Viscosity Index (VI)	Scale	ASTM D2270	150	---	---

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.** : PCA0115866 **Recieved** : 29 Dec 2023  
**Lab Number** : 06048497 **Diagnosed** : 03 Jan 2024  
**Unique Number** : 10809105 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )

**MVP INC - MISSOURI VALLEY PETROLEUM**  
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Certificate L2367  
 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)