

# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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.

### ▲ Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0099989</b>	---	---
Sample Date	Client Info			<b>14 Sep 2023</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>ATTENTION</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185m		<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</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>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m		<b>&lt;1</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>76</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>35</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>456</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1577</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>677</b>	---	---
Zinc	ppm	ASTM D5185m		<b>798</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2588</b>	---	---

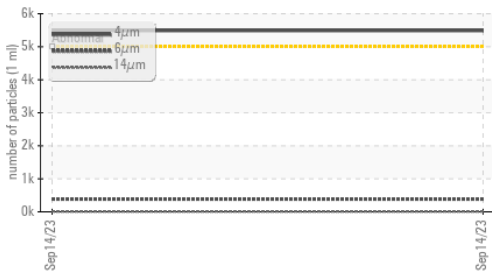
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>8</b>	---	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 5490</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>386</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>10</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>2</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>▲ 20/16/10</b>	---	---

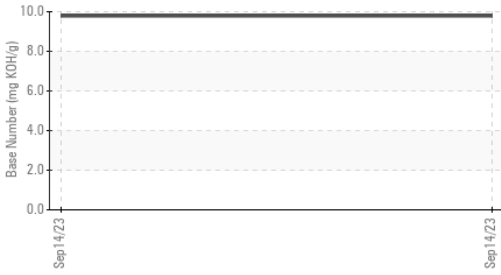
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.17</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.79</b>	---	---

# OIL ANALYSIS REPORT

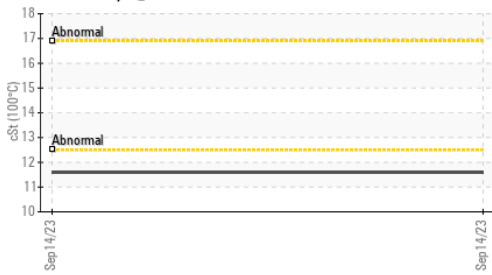
**▲ Particle Trend**



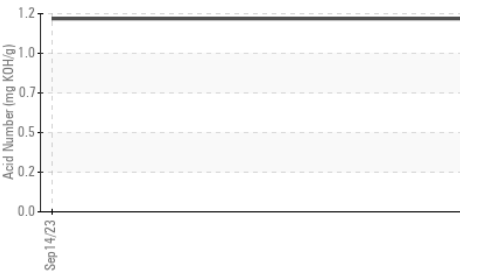
**Base Number**



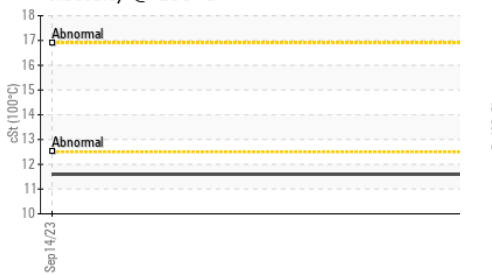
**Viscosity @ 100°C**



**Acid Number**



**Viscosity @ 100°C**



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	75.77	---	---
Visc @ 100°C	cSt	ASTM D445	11.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	146	---	---

**SAMPLE IMAGES**

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

**GRAPHS**

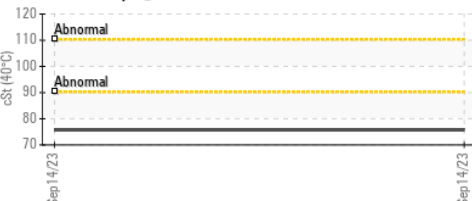
**Ferrous Alloys**



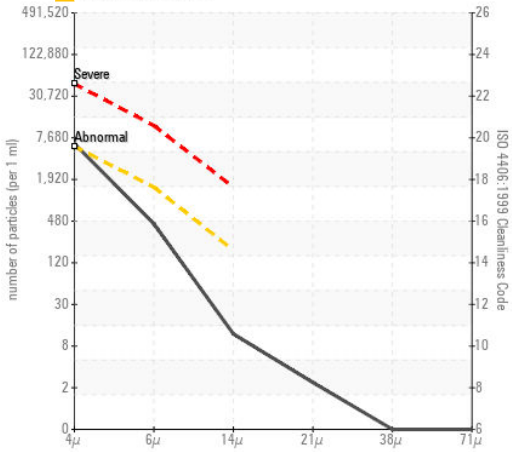
**Non-ferrous Metals**



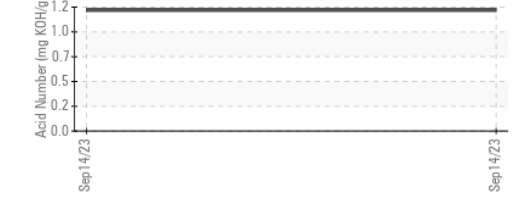
**Viscosity @ 40°C**



**▲ Particle Count**



**Acid Number**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099989 **Received** : 14 Sep 2023  
**Lab Number** : 05952373 **Diagnosed** : 21 Sep 2023  
**Unique Number** : 10648332 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )  
*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)*

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