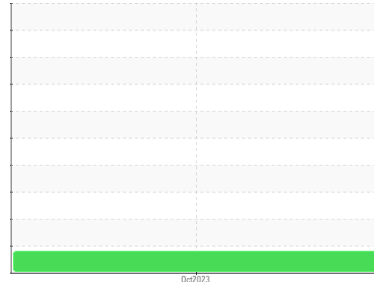


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
004 - 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		PCA0108274	---	---
Sample Date	Client Info		30 Oct 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	0	---	---
Chromium	ppm	ASTM D5185m	0	---	---
Nickel	ppm	ASTM D5185m	<1	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m	1	---	---
Lead	ppm	ASTM D5185m	0	---	---
Copper	ppm	ASTM D5185m	1	---	---
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	68	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	36	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	514	---	---
Calcium	ppm	ASTM D5185m	1568	---	---
Phosphorus	ppm	ASTM D5185m	766	---	---
Zinc	ppm	ASTM D5185m	905	---	---
Sulfur	ppm	ASTM D5185m	2511	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	9	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---

FLUID CLEANLINESS

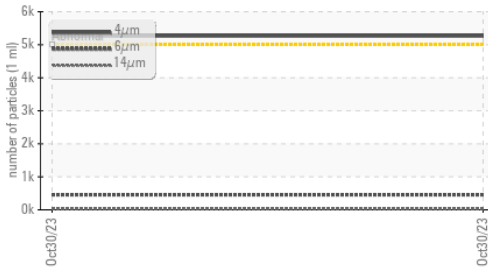
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 5266	---	---
Particles >6µm	ASTM D7647	>1300	456	---	---
Particles >14µm	ASTM D7647	>160	23	---	---
Particles >21µm	ASTM D7647	>40	5	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/16/12	---	---

FLUID DEGRADATION

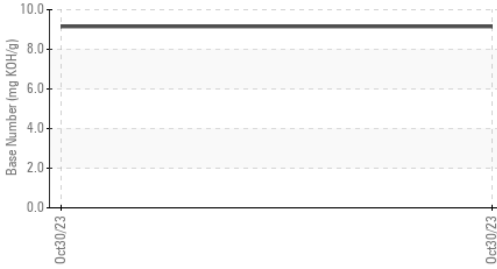
	method	limit/base	current	history1	history2
Base Number (BN)	mg KOH/g	ASTM D2896	9.15	---	---

OIL ANALYSIS REPORT

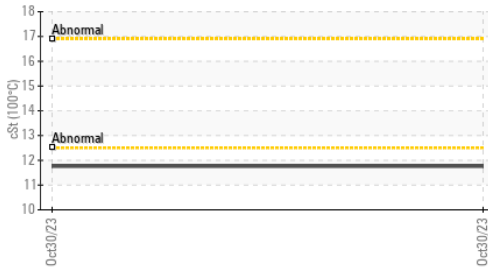
▲ Particle Trend



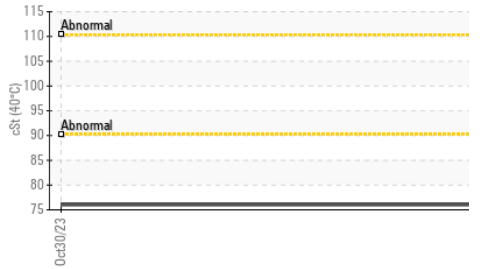
Base Number



Viscosity @ 100°C



Viscosity @ 40°C



Acid Number



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	LIGHT	---
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	---

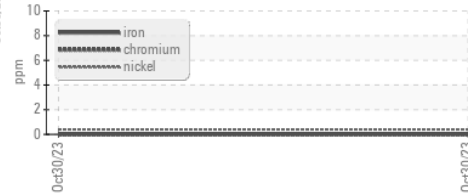
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	76.03	---	---
Visc @ 100°C	cSt	ASTM D445	11.76	---	---
Viscosity Index (VI)	Scale	ASTM D2270	149	---	---

SAMPLE IMAGES

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

GRAPHS

Ferrous Alloys



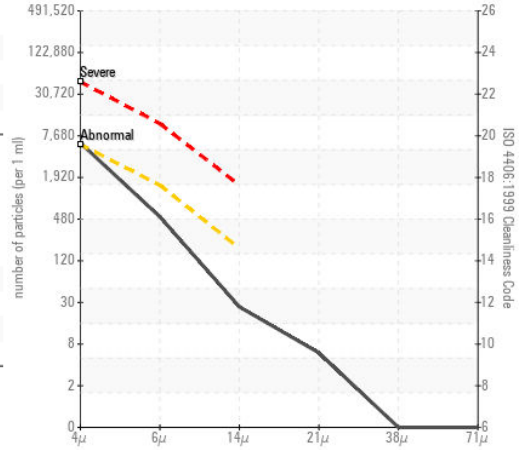
Non-ferrous Metals



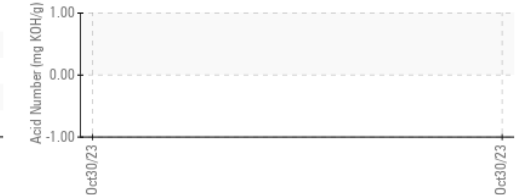
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108274 **Received** : 30 Oct 2023
Lab Number : 05993921 **Diagnosed** : 03 Nov 2023
Unique Number : 10722281 **Diagnostician** : Jonathan Hester

MVP INC - MISSOURI VALLEY PETROLEUM
 1722 MANDAN AVE
 MANDAN, ND
 US 58554

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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 F: (701)663-9445