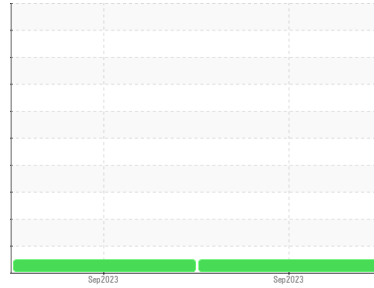


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
GE HSK 4

Component
Natural Gas Engine

Fluid
AMSOIL SYN TURBO ISO VG 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: one of two samples received with same ID and sampling date.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0099978	PCA0099977	---
Sample Date	Client Info	06 Sep 2023	05 Sep 2023	---
Machine Age	hrs Client Info	0	0	---
Oil Age	hrs Client Info	0	0	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	0	---
Chromium ppm	ASTM D5185m >4	0	0	---
Nickel ppm	ASTM D5185m >2	0	0	---
Titanium ppm	ASTM D5185m	0	0	---
Silver ppm	ASTM D5185m >3	0	0	---
Aluminum ppm	ASTM D5185m >9	0	0	---
Lead ppm	ASTM D5185m >30	0	0	---
Copper ppm	ASTM D5185m >35	0	0	---
Tin ppm	ASTM D5185m >4	0	0	---
Vanadium ppm	ASTM D5185m	0	0	---
Cadmium ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	---
Barium ppm	ASTM D5185m	6	6	---
Molybdenum ppm	ASTM D5185m	0	0	---
Manganese ppm	ASTM D5185m	0	0	---
Magnesium ppm	ASTM D5185m	4	4	---
Calcium ppm	ASTM D5185m	0	0	---
Phosphorus ppm	ASTM D5185m	25	22	---
Zinc ppm	ASTM D5185m	3	3	---
Sulfur ppm	ASTM D5185m	727	732	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >+100	<1	<1	---
Sodium ppm	ASTM D5185m	0	0	---
Potassium ppm	ASTM D5185m >20	0	0	---

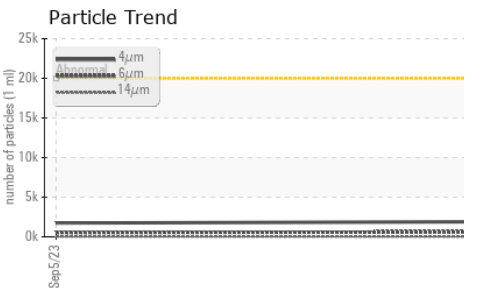
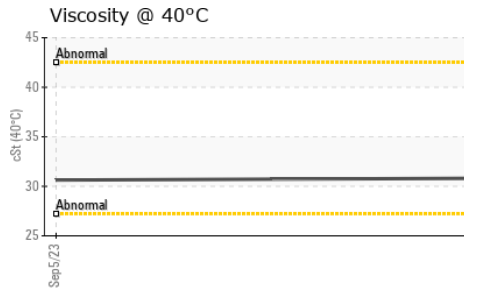
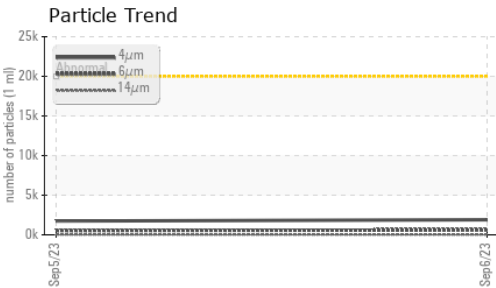
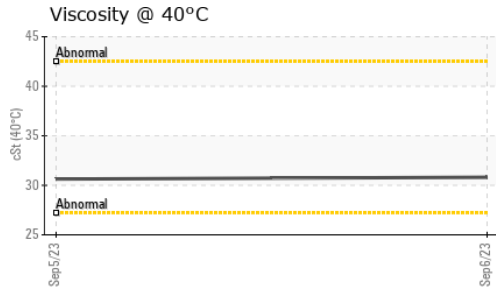
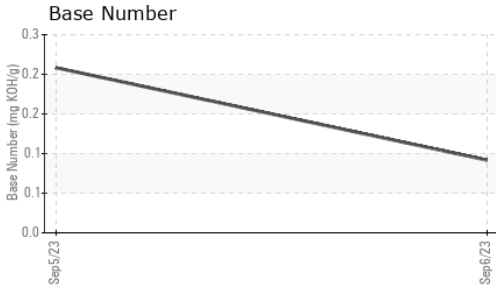
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	1898	1738	---
Particles >6µm	ASTM D7647 >5000	609	530	---
Particles >14µm	ASTM D7647 >640	41	46	---
Particles >21µm	ASTM D7647 >160	7	10	---
Particles >38µm	ASTM D7647 >40	0	1	---
Particles >71µm	ASTM D7647 >10	0	0	---
Oil Cleanliness	ISO 4406 (c) >21/19/16	18/16/13	18/16/13	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.133	0.071	---
Base Number (BN) mg KOH/g	ASTM D2896	0.11	0.25	---

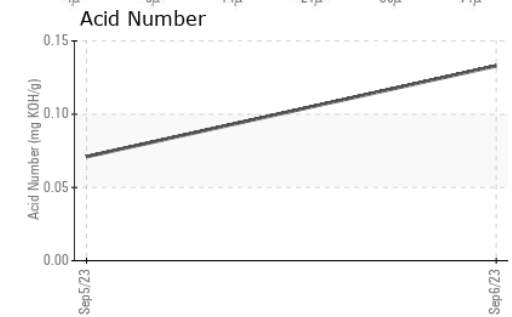
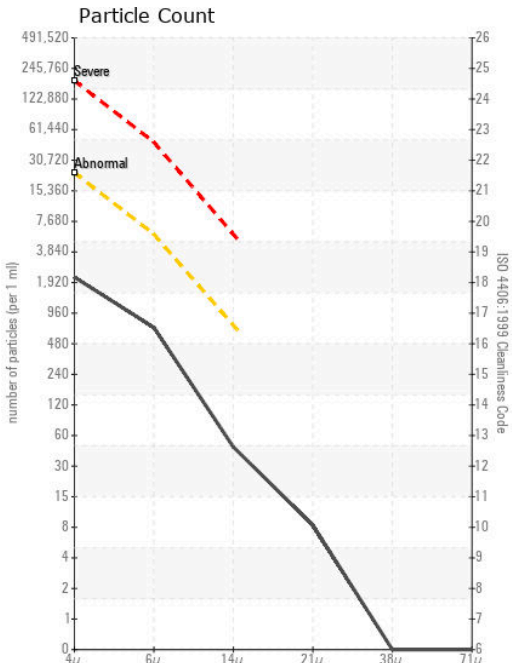
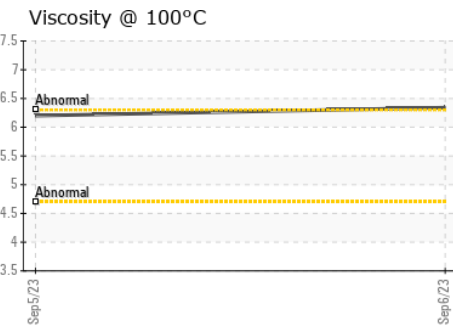
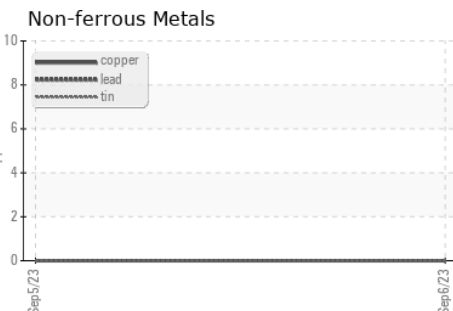
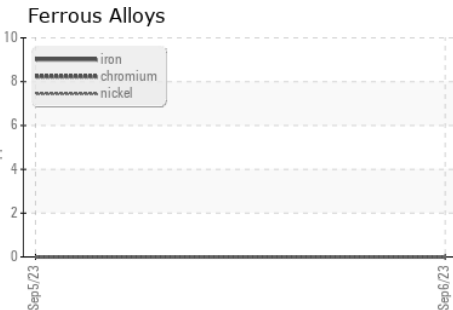
OIL ANALYSIS REPORT



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	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.81	30.63	---
Visc @ 100°C	cSt	ASTM D445	6.34	6.2	---
Viscosity Index (VI)	Scale	ASTM D2270	163	156	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099978 **Received** : 07 Sep 2023
Lab Number : **05945349** **Diagnosed** : 08 Sep 2023
Unique Number : 10635961 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: KV40, PrtCount, VI)

MDU-HESKETT STATION
 2035 38TH ST
 MANDAN, ND
 US 58554
 Contact: DJ STOCKWELL
 dj.stockwell@mdu.com
 T: (406)931-3562
 F:

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)