



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
HOWARD SHEPPARD [0028]
 Machine Id
2580 HOWARD SHEPPARD
 Component
Rear Differential
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

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	WC0876061	---	---
Sample Date	Client Info	12 Oct 2023	---	---
Machine Age	mls Client Info	89395	---	---
Oil Age	mls Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	10	---	---
Chromium ppm ASTM D5185m	>10	0	---	---
Nickel ppm ASTM D5185m	>10	0	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	0	---	---
Lead ppm ASTM D5185m	>25	0	---	---
Copper ppm ASTM D5185m	>100	0	---	---
Tin ppm ASTM D5185m	>10	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		257	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m		0	---	---
Calcium ppm ASTM D5185m		<1	---	---
Phosphorus ppm ASTM D5185m		1459	---	---
Zinc ppm ASTM D5185m		0	---	---
Sulfur ppm ASTM D5185m		23588	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	2	---	---
Sodium ppm ASTM D5185m		<1	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304	>.2	0.044	---	---
ppm Water ppm ASTM D6304	>2000	442	---	---

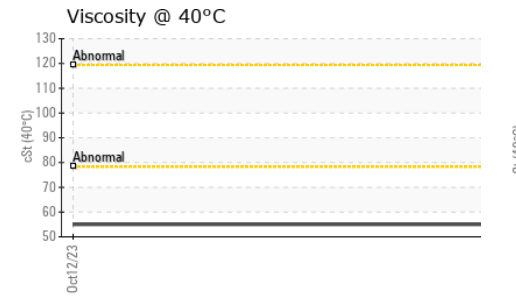
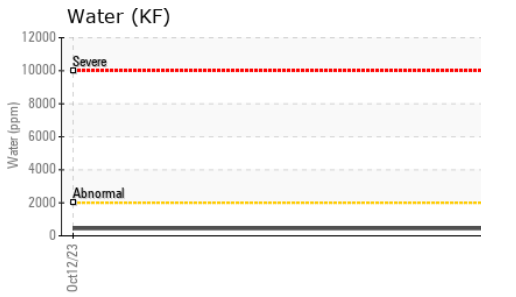
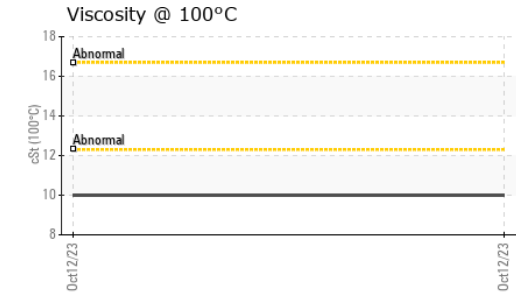
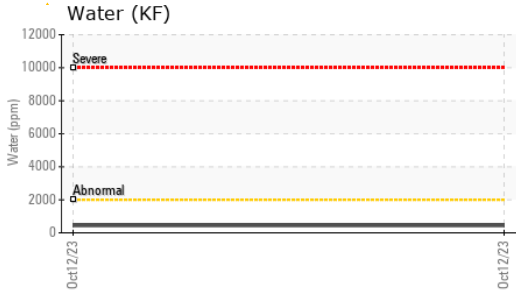
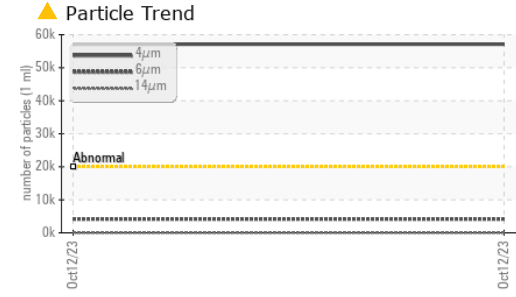
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	▲ 57105	---	---
Particles >6µm ASTM D7647	>5000	4164	---	---
Particles >14µm ASTM D7647	>640	32	---	---
Particles >21µm ASTM D7647	>160	4	---	---
Particles >38µm ASTM D7647	>40	0	---	---
Particles >71µm ASTM D7647	>10	0	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	▲ 23/19/12	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		2.46	---	---

OIL ANALYSIS REPORT

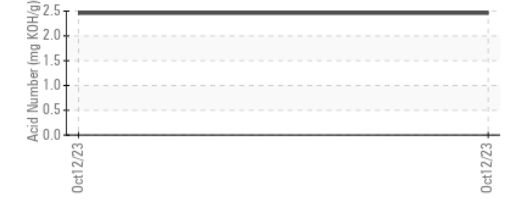
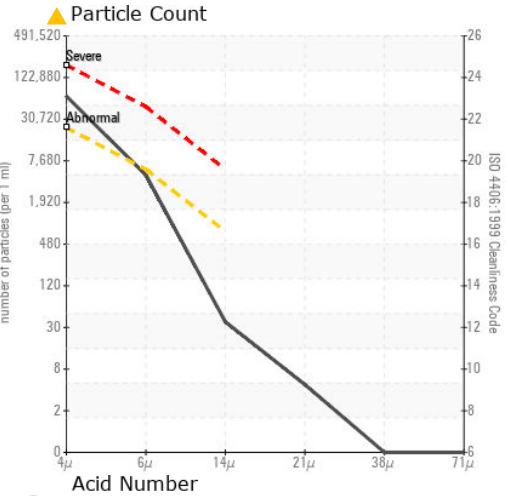


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.0	---	---
Visc @ 100°C	cSt	ASTM D445	10.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270	170	---	---

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. : WC0876061 **Received** : 08 Jan 2024
Lab Number : 06054918 **Diagnosed** : 10 Jan 2024
Unique Number : 10820867 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)