



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
DICK LAVY
 Machine Id
DICK LAVY 4957
 Component
Rear Differential
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0843215	---	---
Sample Date	Client Info	08 Aug 2023	---	---
Machine Age	mls Client Info	57	---	---
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	20	---	---
Chromium ppm ASTM D5185m	>10	<1	---	---
Nickel ppm ASTM D5185m	>10	0	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m		<1	---	---
Aluminum ppm ASTM D5185m	>25	3	---	---
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		193	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		1	---	---
Magnesium ppm ASTM D5185m		1	---	---
Calcium ppm ASTM D5185m		18	---	---
Phosphorus ppm ASTM D5185m		1094	---	---
Zinc ppm ASTM D5185m		0	---	---
Sulfur ppm ASTM D5185m		29417	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	12	---	---
Sodium ppm ASTM D5185m		6	---	---
Potassium ppm ASTM D5185m	>20	<1	---	---
Water % ASTM D6304	>.2	0.063	---	---
ppm Water ppm ASTM D6304	>2000	637.0	---	---

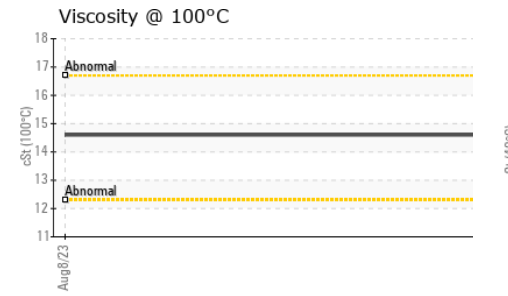
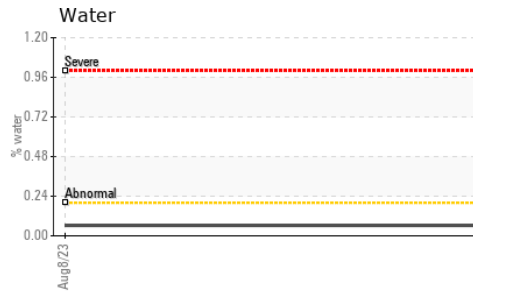
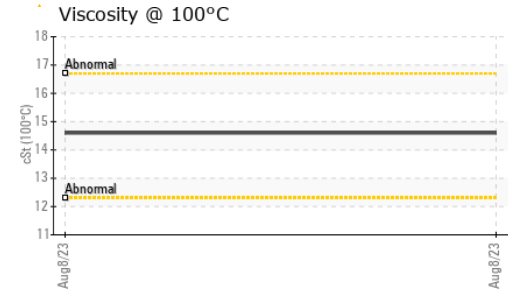
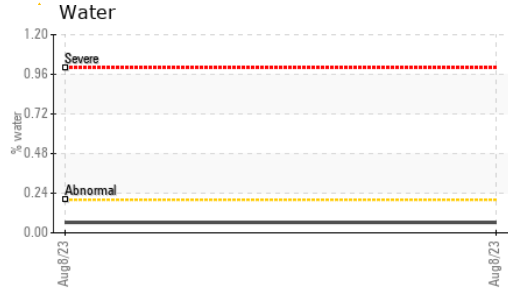
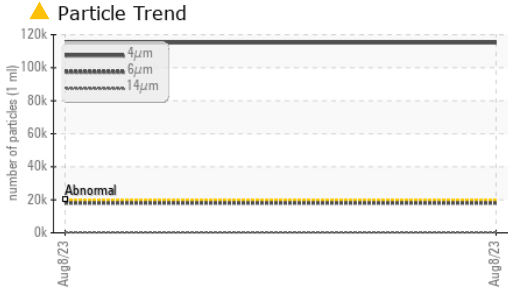
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	▲ 115116	---	---
Particles >6µm ASTM D7647	>5000	▲ 18113	---	---
Particles >14µm ASTM D7647	>640	329	---	---
Particles >21µm ASTM D7647	>160	62	---	---
Particles >38µm ASTM D7647	>40	4	---	---
Particles >71µm ASTM D7647	>10	1	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	▲ 24/21/16	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		▲ 3.55	---	---

OIL ANALYSIS REPORT



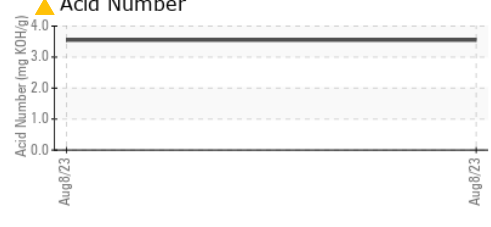
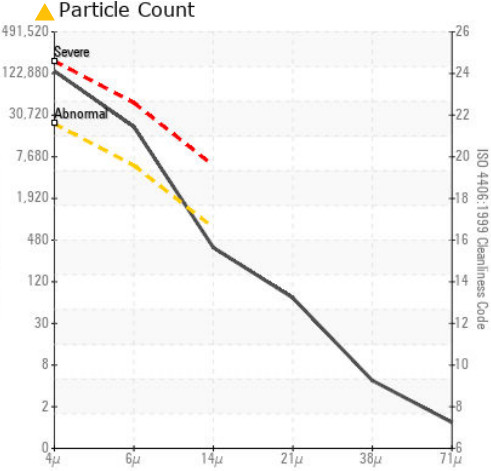
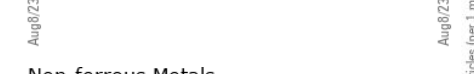
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	98.4	---	---
Visc @ 100°C	cSt	ASTM D445	14.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	153	---	---

SAMPLE IMAGES

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. : WC0843215 **Received** : 29 Aug 2023
Lab Number : 05937859 **Diagnosed** : 14 Sep 2023
Unique Number : 10628471 **Diagnostician** : Doug Bogart
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)