



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**HYDREMA 40103**  
Component  
**Rear Right Planetary**  
Fluid  
**CHEVRON DELO GEAR ESI OIL 80W90 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0882746</b>	WC0733393	WC0563748
Sample Date		Client Info		<b>01 May 2024</b>	21 Oct 2022	27 May 2021
Machine Age	hrs	Client Info		<b>4363</b>	3804	2710
Oil Age	hrs	Client Info		<b>1500</b>	1000	1000
Filter Age	hrs	Client Info		<b>1500</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>192</b>	▲ 1109	▲ 1479
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	8	10
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>12</b>	4	4
Lead	ppm	ASTM D5185m	>25	<b>0</b>	8	<1
Copper	ppm	ASTM D5185m	>75	<b>4</b>	40	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	3	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

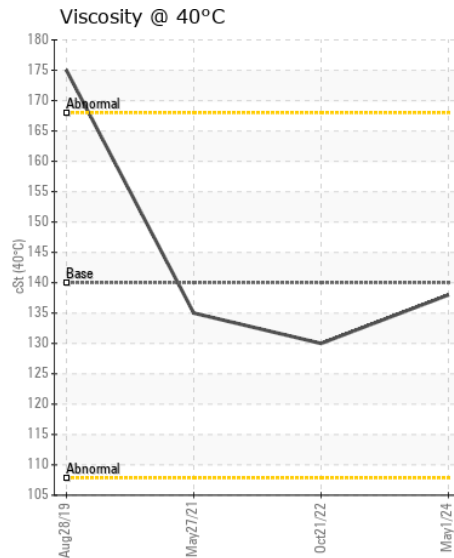
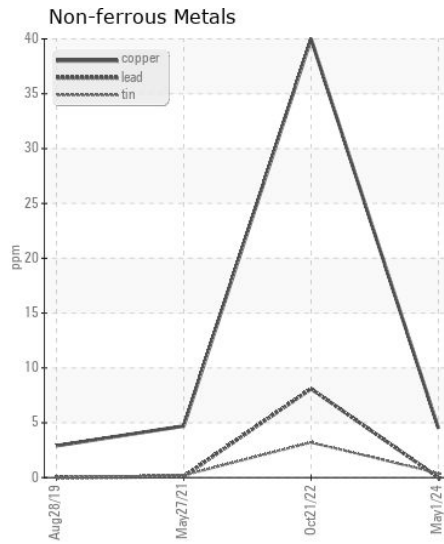
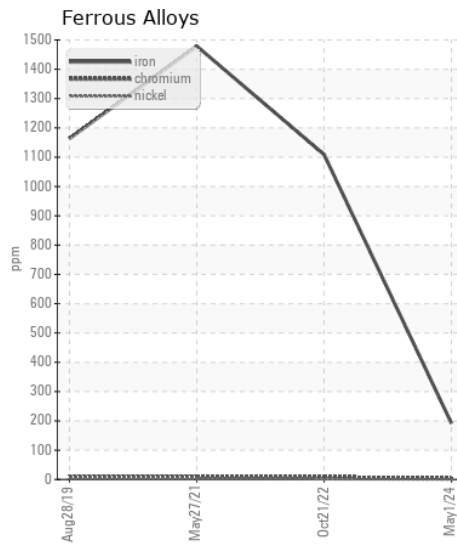
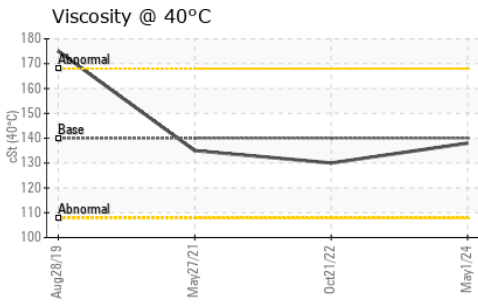
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>30</b>	10	13
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	<1	1
Boron	ppm	ASTM D5185m		<b>23</b>	150	94
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	4	3
Manganese	ppm	ASTM D5185m		<b>5</b>	12	9
Magnesium	ppm	ASTM D5185m		<b>8</b>	9	6
Calcium	ppm	ASTM D5185m		<b>40</b>	58	63
Phosphorus	ppm	ASTM D5185m		<b>685</b>	1451	1555
Zinc	ppm	ASTM D5185m		<b>23</b>	44	52
Sulfur	ppm	ASTM D5185m		<b>18550</b>	22367	21668
Visc @ 40°C	cSt	ASTM D445	140	<b>138</b>	130	135



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0882746  
**Lab Number** : 06177544  
**Unique Number** : 11023597  
**Test Package** : CONST

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 15 May 2024 - Don Baldrige

**SULLIVAN EASTERN INC**  
 2860 C SLATER RD  
 MORRISVILLE, NC  
 US 27560

Contact: SCOTT SULLIVAN  
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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)

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