



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**DURALENE DT5B 5W30**

Component  
**New (Unused) Oil**

Fluid  
**{not provided} (--- LTR)**

## RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0035586</b>	DC0031272	DC0031088
Sample Date		Client Info		<b>12 Mar 2024</b>	29 Feb 2024	25 Jan 2024
Machine Age	mls	Client Info		<b>0</b>	0	0
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

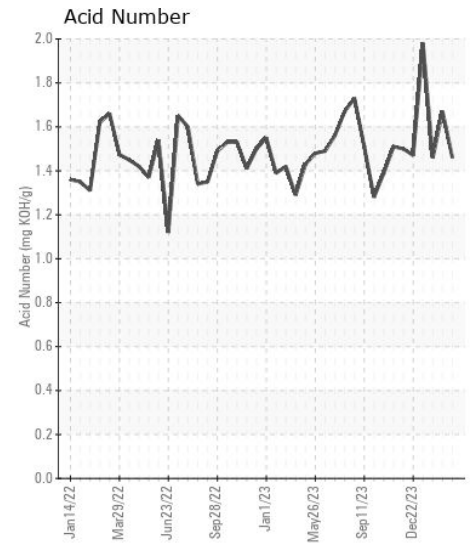
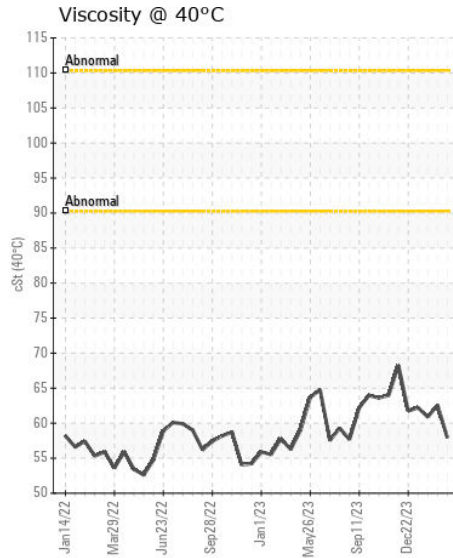
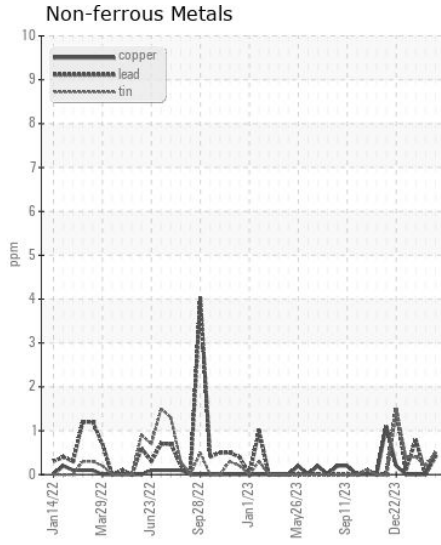
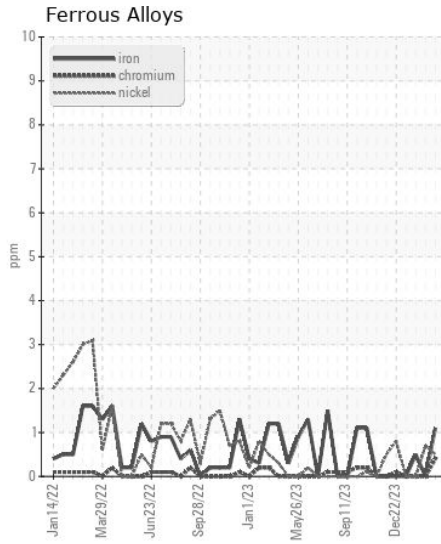
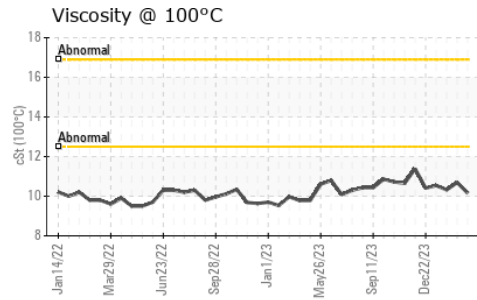
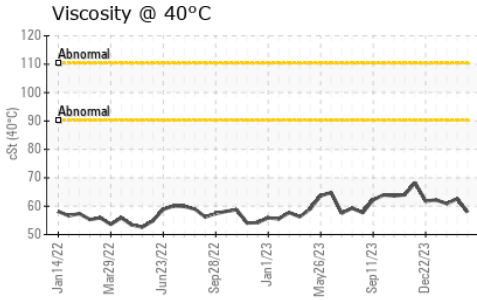
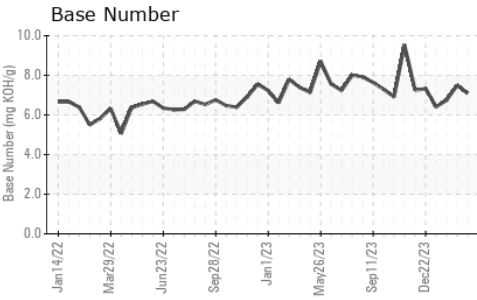
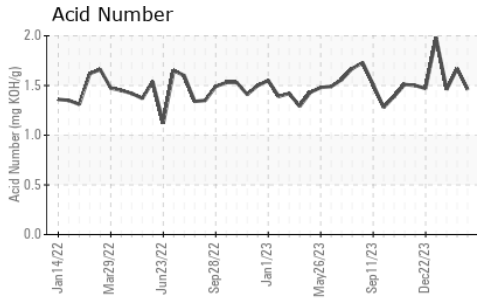
Iron	ppm	ASTM D5185m		<b>1</b>	0	<1
Chromium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>3</b>	2	2
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

Silicon	ppm	ASTM D5185m		<b>8</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	4
Water		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	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		<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Sodium	ppm	ASTM D5185m		<b>3</b>	0	0
Boron	ppm	ASTM D5185m		<b>124</b>	134	135
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>39</b>	35	40
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>626</b>	647	693
Calcium	ppm	ASTM D5185m		<b>722</b>	723	708
Phosphorus	ppm	ASTM D5185m		<b>472</b>	536	604
Zinc	ppm	ASTM D5185m		<b>629</b>	647	714
Sulfur	ppm	ASTM D5185m		<b>2141</b>	2522	2474
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.46</b>	1.67	1.46
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.10</b>	7.49	6.74
Visc @ 40°C	cSt	ASTM D445		<b>57.91</b>	62.58	60.89
Visc @ 100°C	cSt	ASTM D445		<b>10.16</b>	10.69	10.32
Viscosity Index (VI)	Scale	ASTM D2270		<b>164</b>	162	158



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035586  
**Lab Number** : 06124452  
**Unique Number** : 10938603  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, Viscosity)

**Received** : 20 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Jonathan Hester

**THE UNITED OIL COMPANY - OPERATIONS**  
 4405 E. BALTIMORE ST  
 BALTIMORE, MD  
 US 21224  
 Contact: MICHELLE HORNING

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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