



# OIL ANALYSIS REPORT

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

Machine Id  
**ALS 15W40/309**  
 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>DC0031264</b>	DC0031216	DC0031215
Sample Date		Client Info		<b>15 Feb 2024</b>	08 Feb 2024	08 Feb 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

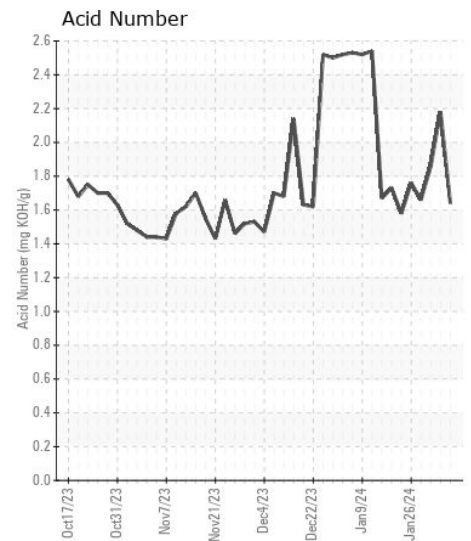
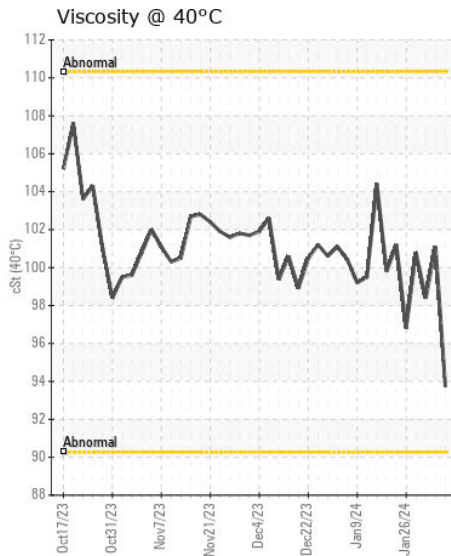
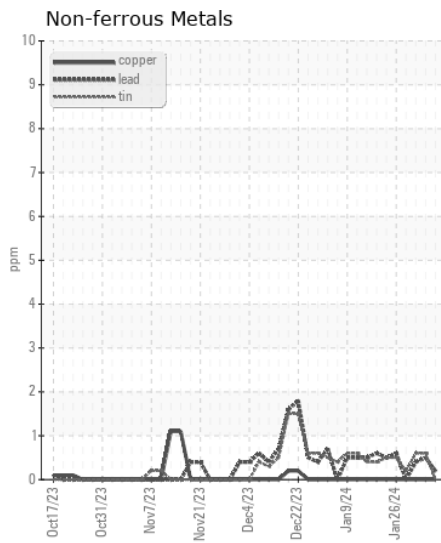
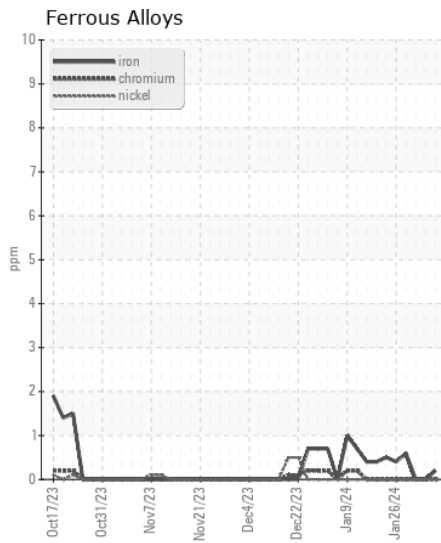
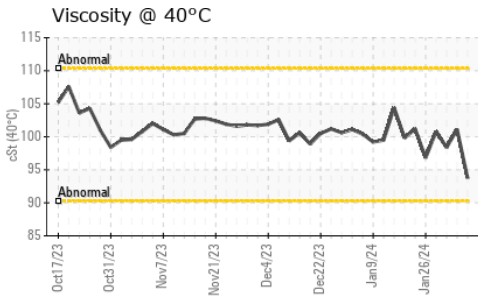
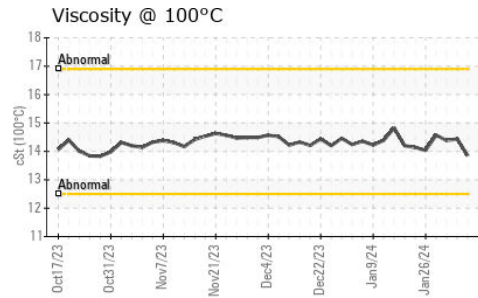
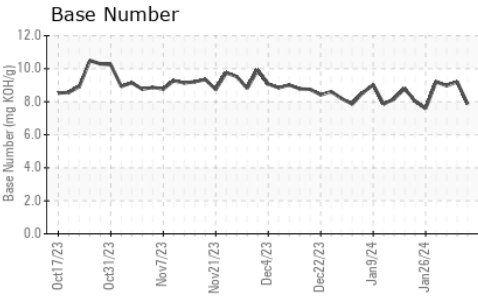
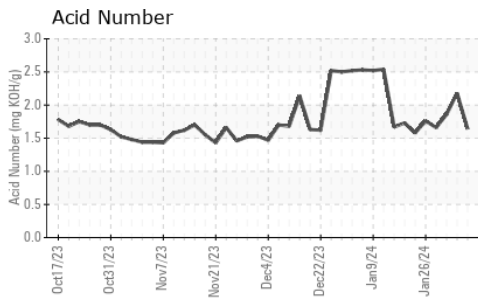
Iron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m		<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m		<b>0</b>	0	0
Tin	ppm	ASTM D5185m		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
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>6</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	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>0</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>3</b>	0	14
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	5
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>28</b>	18	54
Calcium	ppm	ASTM D5185m		<b>2067</b>	2064	1991
Phosphorus	ppm	ASTM D5185m		<b>863</b>	884	859
Zinc	ppm	ASTM D5185m		<b>1010</b>	1040	1019
Sulfur	ppm	ASTM D5185m		<b>3577</b>	3507	3427
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.64</b>	2.18	1.86
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.86</b>	9.21	8.97
Visc @ 40°C	cSt	ASTM D445		<b>93.72</b>	101.1	98.38
Visc @ 100°C	cSt	ASTM D445		<b>13.85</b>	14.44	14.38
Viscosity Index (VI)	Scale	ASTM D2270		<b>150</b>	147	150



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0031264  
**Lab Number** : 06102132  
**Unique Number** : 10900362  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, Viscosity)

**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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 F: (410)327-7695