



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALS DEXOS 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		DC0031131	DC0031339	DC0027343
Sample Date		Client Info		22 Dec 2023	17 Oct 2023	29 Jun 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

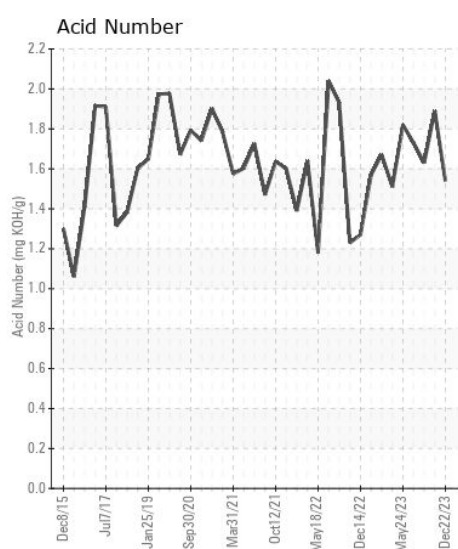
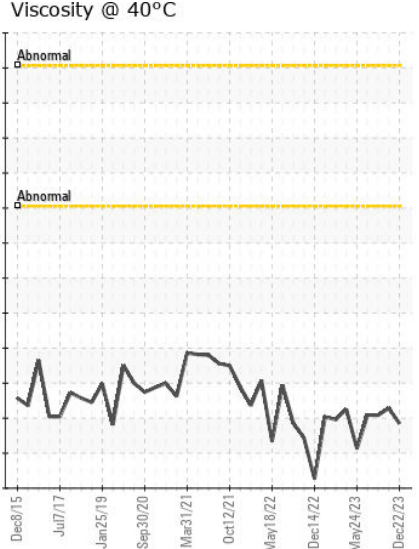
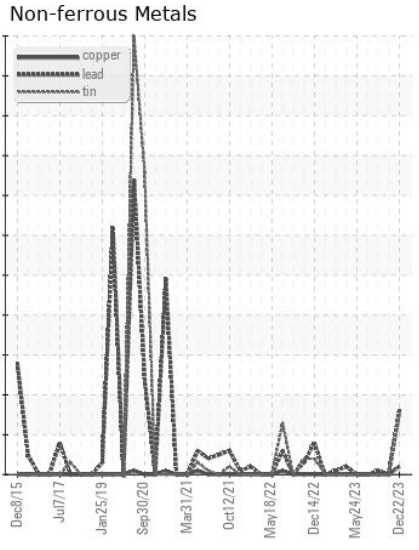
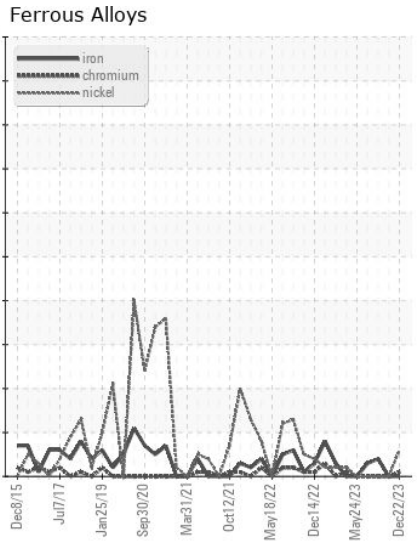
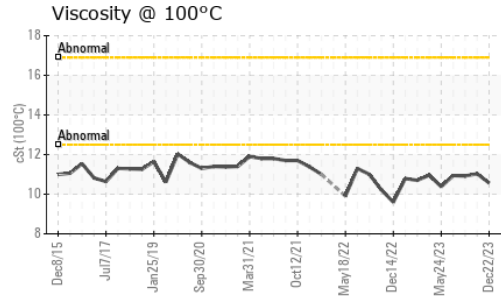
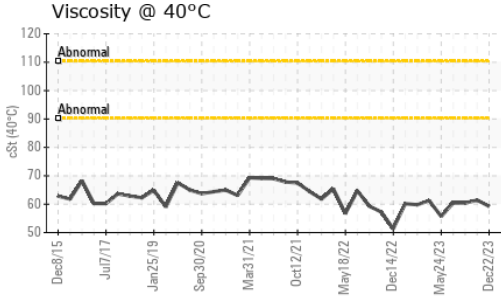
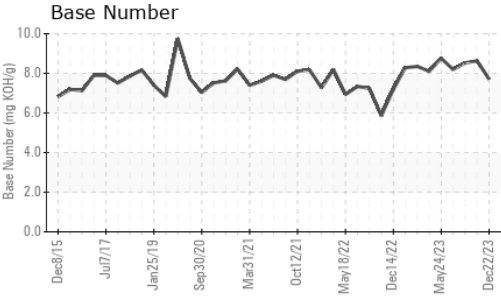
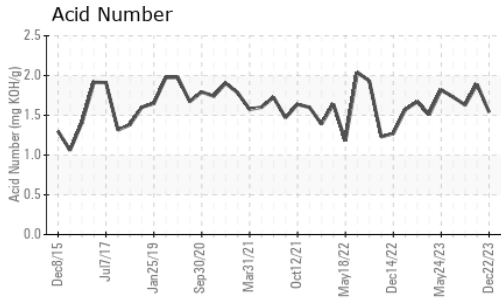
Iron	ppm	ASTM D5185m		0	0	<1
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m		2	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m		2	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m		10	8	10
Potassium	ppm	ASTM D5185m	>20	3	2	<1
Water		WC Method		NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG

FLUID CONDITION

Sodium	ppm	ASTM D5185m		<1	0	<1
Boron	ppm	ASTM D5185m		191	233	237
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		63	53	65
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		530	455	475
Calcium	ppm	ASTM D5185m		1068	1070	1163
Phosphorus	ppm	ASTM D5185m		646	525	632
Zinc	ppm	ASTM D5185m		746	642	747
Sulfur	ppm	ASTM D5185m		2752	2474	3028
Acid Number (AN)	mg KOH/g	ASTM D8045		1.54	1.89	1.63
Base Number (BN)	mg KOH/g	ASTM D2896		7.71	8.63	8.53
Visc @ 40°C	cSt	ASTM D445		59.25	61.41	60.42
Visc @ 100°C	cSt	ASTM D445		10.57	11.03	10.92
Viscosity Index (VI)	Scale	ASTM D2270		170	173	174



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0031131 **Received** : 10 Jan 2024
Lab Number : 06057108 **Diagnosed** : 12 Jan 2024
Unique Number : 10823057 **Diagnostician** : 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)

T:
 F: (410)327-7695