



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALS 0W20
 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		DC0035826	DC0035500	DC0031241
Sample Date		Client Info		10 May 2024	10 Apr 2024	29 Feb 2024
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

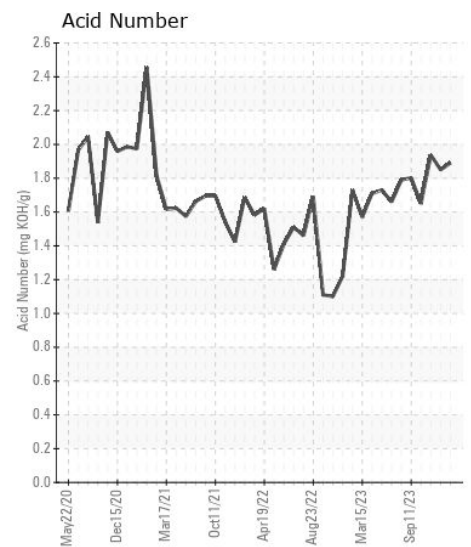
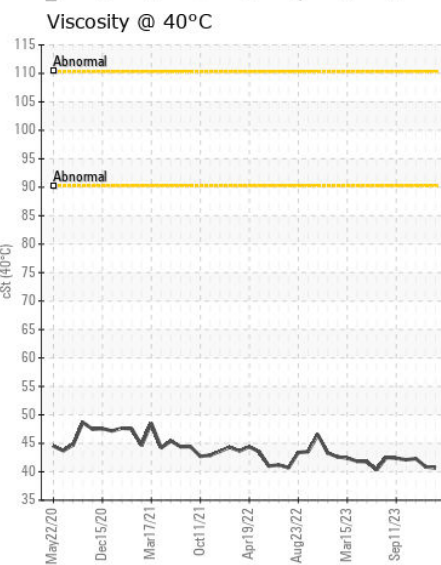
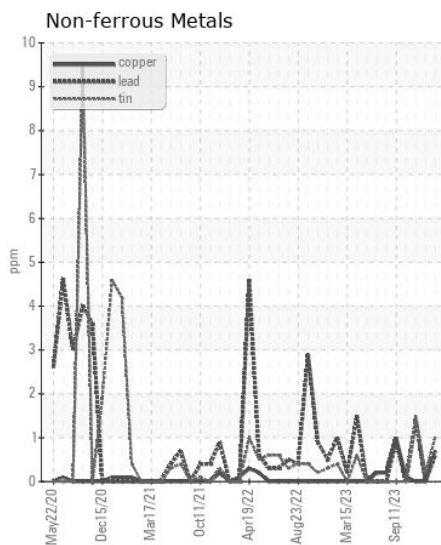
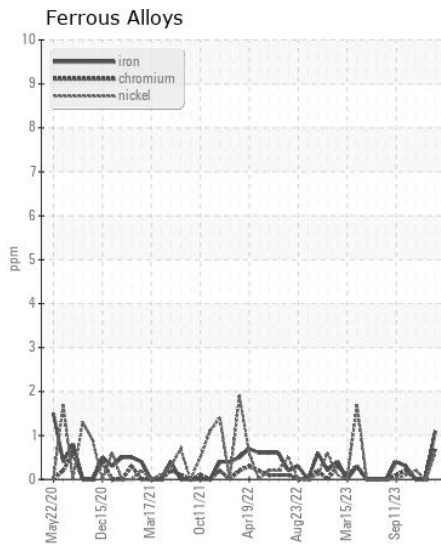
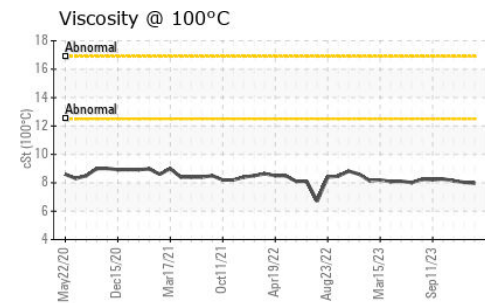
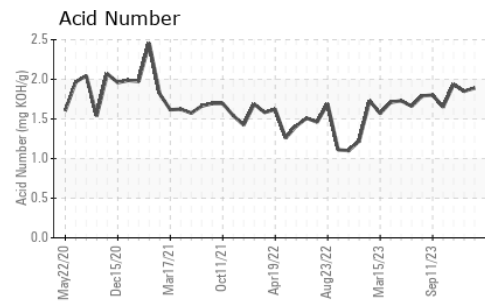
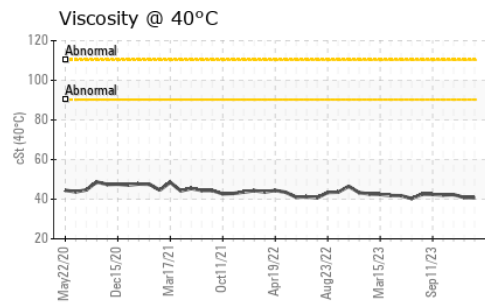
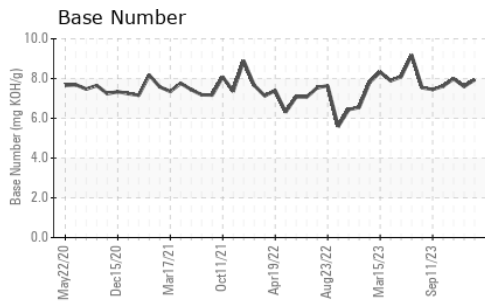
Iron	ppm	ASTM D5185m		1	0	0
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		3	<1	<1
Lead	ppm	ASTM D5185m		<1	0	1
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m		1	<1	2
Vanadium	ppm	ASTM D5185m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

CONTAMINATION

Silicon	ppm	ASTM D5185m		14	9	10
Potassium	ppm	ASTM D5185m	>20	2	<1	0
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		4	0	0
Boron	ppm	ASTM D5185m		316	212	201
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		82	63	66
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		638	497	545
Calcium	ppm	ASTM D5185m		1428	1150	1274
Phosphorus	ppm	ASTM D5185m		855	650	751
Zinc	ppm	ASTM D5185m		939	716	851
Sulfur	ppm	ASTM D5185m		4189	3059	3235
Acid Number (AN)	mg KOH/g	ASTM D8045		1.89	1.85	1.937
Base Number (BN)	mg KOH/g	ASTM D2896		7.94	7.60	7.99
Visc @ 40°C	cSt	ASTM D445		40.66	40.87	42.31
Visc @ 100°C	cSt	ASTM D445		7.97	8.03	8.14
Viscosity Index (VI)	Scale	ASTM D2270		172	173	169



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0035826
Lab Number : **06187207**
Unique Number : 11043959
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, ~~Q~~)

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