MOB II

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		DC0033684	DC0033738	DC0033955
Sample Date		Client Info		20 Jun 2024	18 Jun 2024	10 Jun 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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m		2	2	<1
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		3	3	<1
Lead	ppm	ASTM D5185m		<1	<1	0
Copper	ppm	ASTM D5185m		<1	<1	0
Tin	ppm	ASTM D5185m		<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

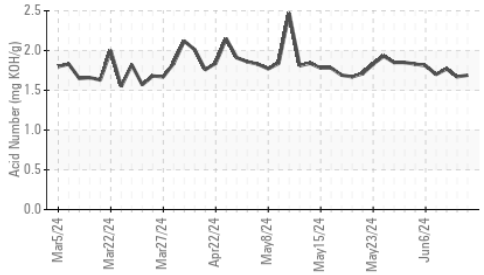
CONTAMINATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		5	6	6
Potassium	ppm	ASTM D5185m	>20	3	3	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

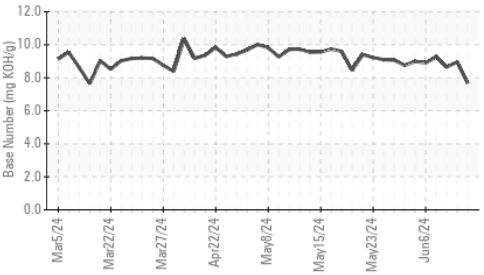
FLUID CONDITION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		2	4	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		17	30	25
Calcium	ppm	ASTM D5185m		2074	2164	2514
Phosphorus	ppm	ASTM D5185m		838	862	979
Zinc	ppm	ASTM D5185m		935	977	1184
Sulfur	ppm	ASTM D5185m		3471	3590	4801
Acid Number (AN)	mg KOH/g	ASTM D8045		1.69	1.67	1.77
Base Number (BN)	mg KOH/g	ASTM D2896		7.67	8.95	8.65
Visc @ 40°C	cSt	ASTM D445		104.4	95.68	97.9
Visc @ 100°C	cSt	ASTM D445		14.12	14.01	14.17
Viscosity Index (VI)	Scale	ASTM D2270		137	149	148

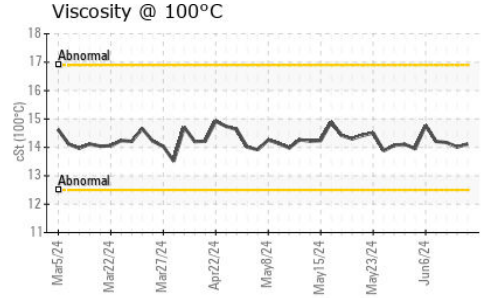
Acid Number



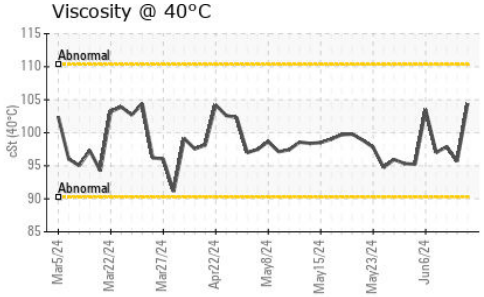
Base Number



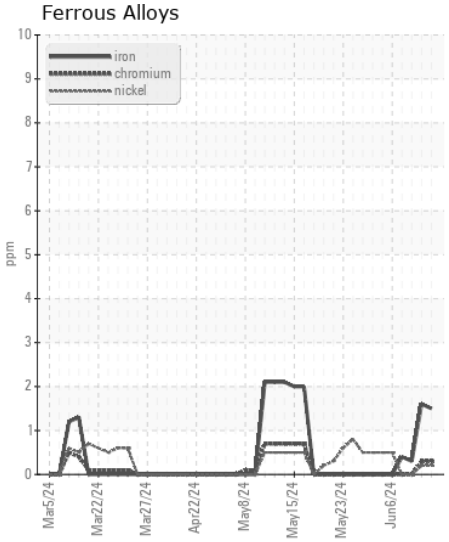
Viscosity @ 100°C



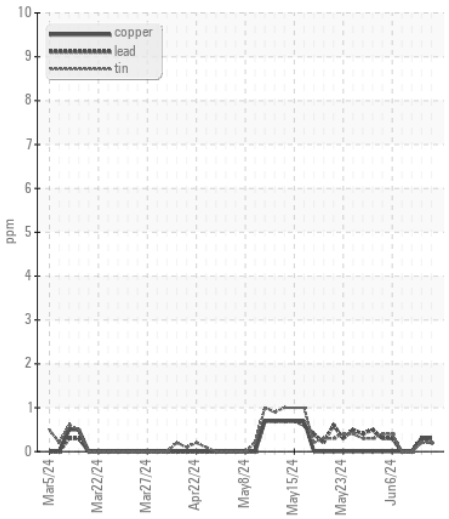
Viscosity @ 40°C



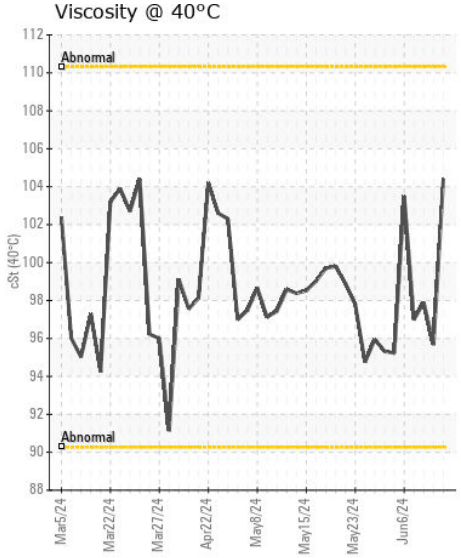
Ferrous Alloys



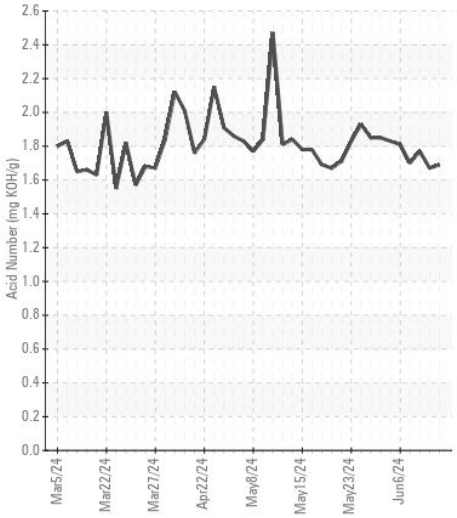
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033684
Lab Number : 06232704
Unique Number : 11116197
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VOC)

Received : 10 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 12 Jul 2024 - Angela Borella

THE UNITED OIL COMPANY - OPERATIONS
4405 E. BALTIMORE ST
BALTIMORE, MD
US 21224
Contact: MICHELLE HORNING
T:
F: (410)327-7695

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)