MOB II

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
AW 46
Component
New (Unused) Oil
Fluid
{not provided} (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0035833	DC0035556	DC0035542
Sample Date		Client Info		14 May 2024	03 May 2024	24 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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		<1	0	0
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		1	0	0
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m		1	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

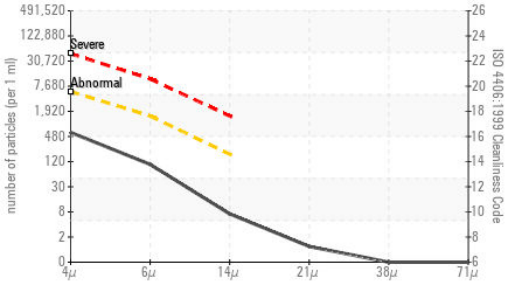
CONTAMINATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	527	408	1031
Particles >6µm		ASTM D7647	>1300	91	62	181
Particles >14µm		ASTM D7647	>160	6	8	7
Particles >21µm		ASTM D7647	>40	1	3	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/10	16/13/10	17/15/10
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

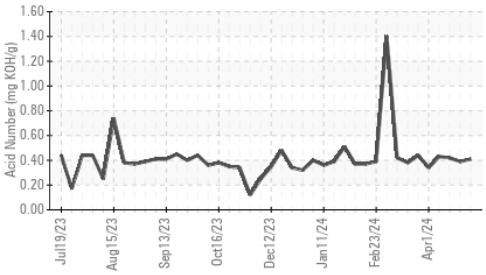
FLUID CONDITION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	2	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		101	101	99
Calcium	ppm	ASTM D5185m		97	74	121
Phosphorus	ppm	ASTM D5185m		331	325	325
Zinc	ppm	ASTM D5185m		410	405	410
Sulfur	ppm	ASTM D5185m		6755	7048	7188
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.39	0.42
Visc @ 40°C	cSt	ASTM D445		44.05	44.33	45.92
Visc @ 100°C	cSt	ASTM D445		6.91	6.95	7.06
Viscosity Index (VI)	Scale	ASTM D2270		113	114	111

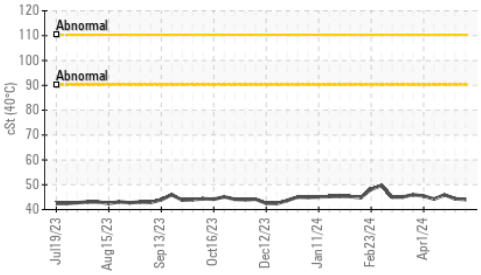
Particle Count



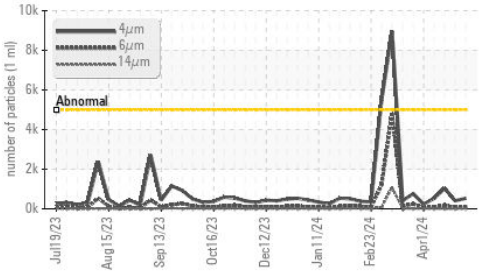
Acid Number



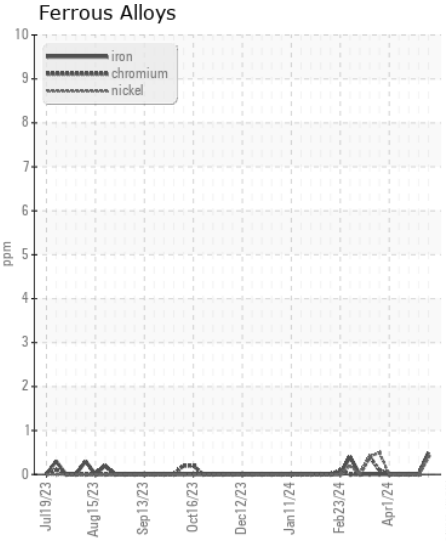
Viscosity @ 40°C



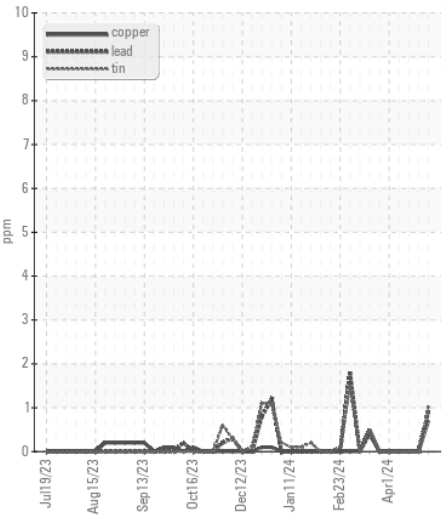
Particle Trend



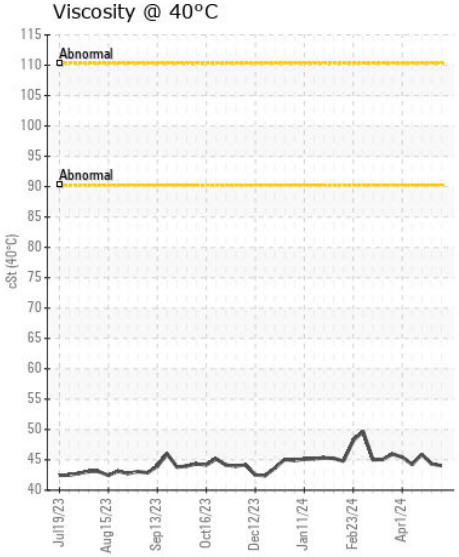
Ferrous Alloys



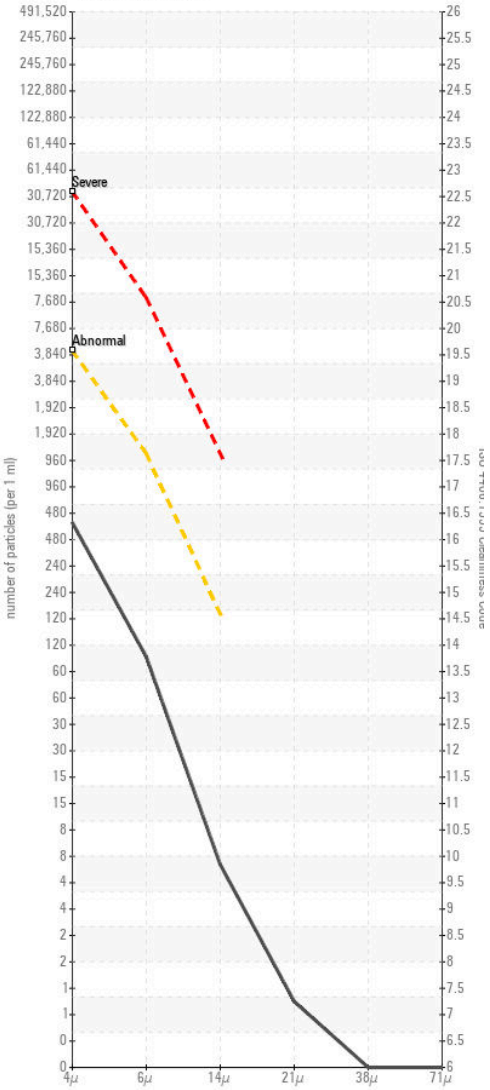
Non-ferrous Metals



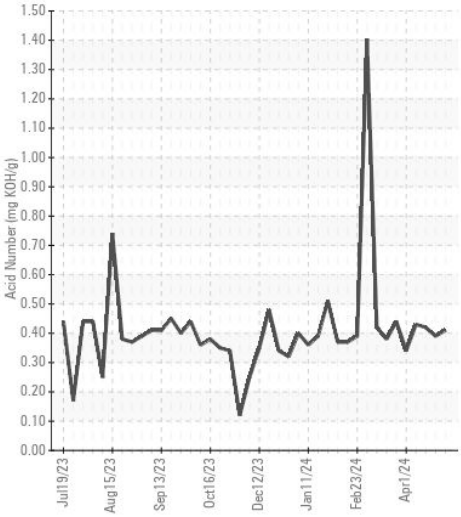
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0035833
Lab Number : 06187201
Unique Number : 11043953
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

Received : 21 May 2024
Tested : 28 May 2024
Diagnosed : 28 May 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)

T:
F: (410)327-7695