MOB II

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
ALS UTF
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		DC0033721	DC0033737	DC0033736
Sample Date		Client Info		21 Jun 2024	13 Jun 2024	13 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				ATTENTION	ATTENTION	ATTENTION

WEAR

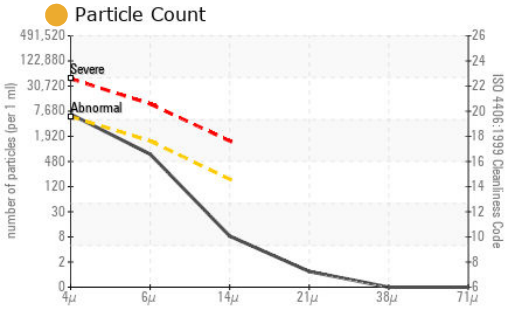
Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m		2	2	2
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		3	3	3
Lead	ppm	ASTM D5185m		<1	<1	<1
Copper	ppm	ASTM D5185m		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

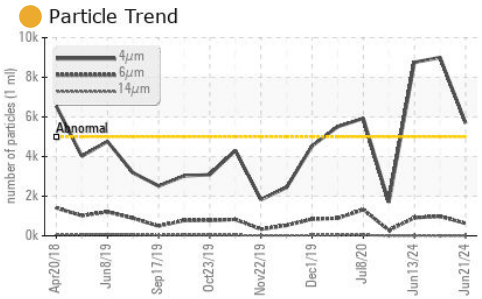
CONTAMINATION

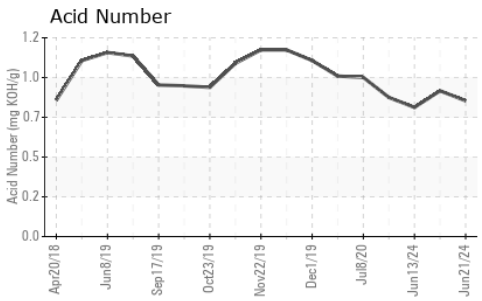
Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		7	7	7
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	5687	8758	9001
Particles >6µm		ASTM D7647	>1300	631	914	984
Particles >14µm		ASTM D7647	>160	7	10	6
Particles >21µm		ASTM D7647	>40	1	2	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	20/16/10	20/17/10	20/17/10
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

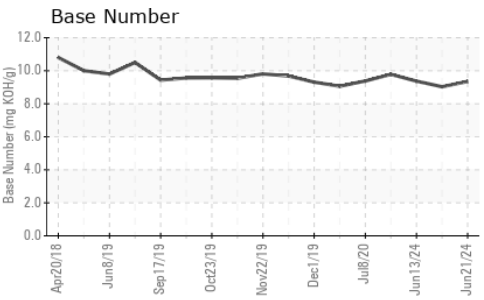
FLUID CONDITION

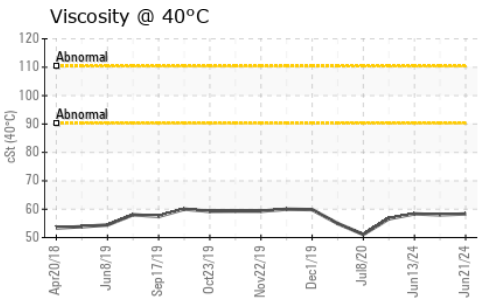
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		103	104	101
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		14	17	14
Calcium	ppm	ASTM D5185m		3213	3193	3117
Phosphorus	ppm	ASTM D5185m		1045	1045	998
Zinc	ppm	ASTM D5185m		1317	1304	1272
Sulfur	ppm	ASTM D5185m		3030	3010	2973
Acid Number (AN)	mg KOH/g	ASTM D8045		0.82	0.88	0.78
Base Number (BN)	mg KOH/g	ASTM D2896		9.35	9.03	9.37
Visc @ 40°C	cSt	ASTM D445		58.33	58.01	58.36
Visc @ 100°C	cSt	ASTM D445		9.92	9.91	9.95
Viscosity Index (VI)	Scale	ASTM D2270		156	157	157

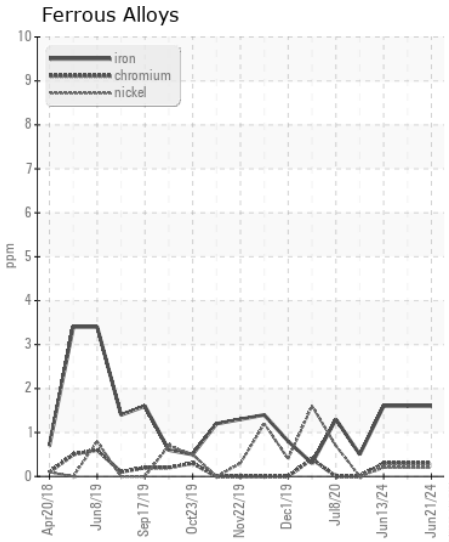


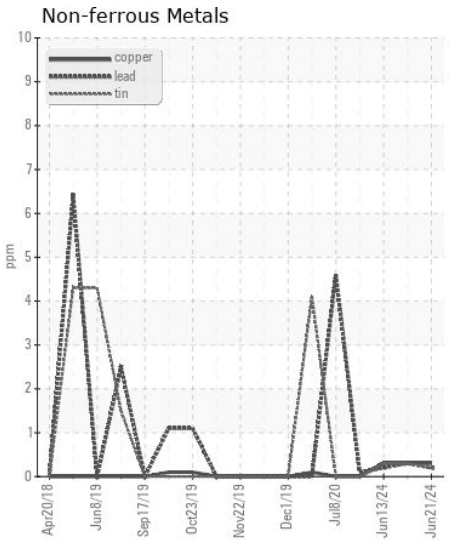


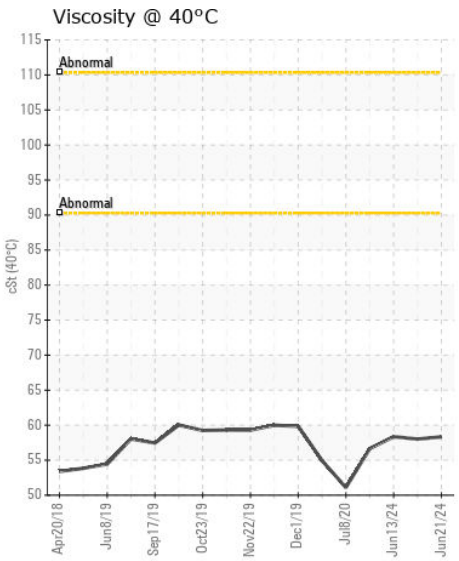


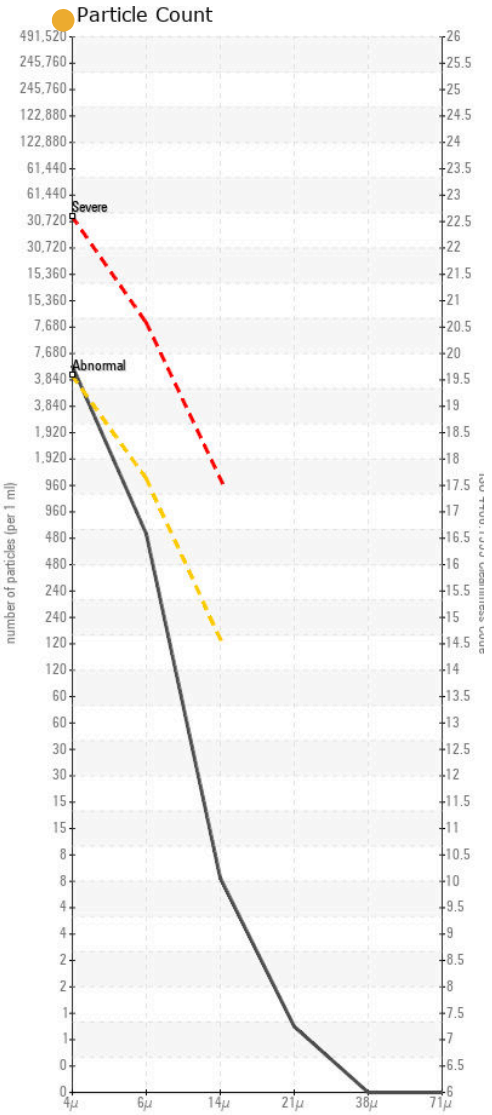


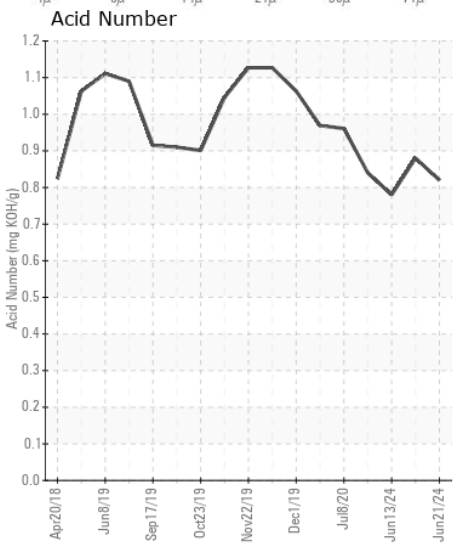












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033721
Lab Number : 06232688
Unique Number : 11116181
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VC)

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)