MOB II

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALS 70P
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		DC0031259	DC0031129	DC0031414
Sample Date		Client Info		15 Feb 2024	27 Dec 2023	22 Nov 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

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

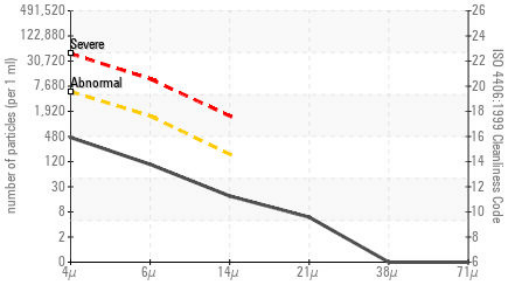
CONTAMINATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	400	944	776
Particles >6µm		ASTM D7647	>1300	91	180	146
Particles >14µm		ASTM D7647	>160	16	23	5
Particles >21µm		ASTM D7647	>40	5	8	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	17/15/12	17/14/10
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

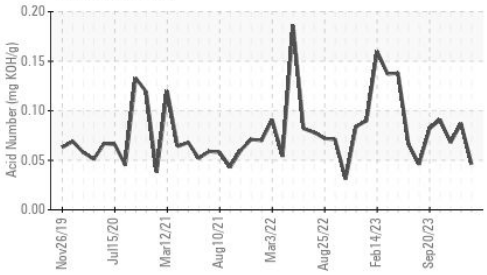
FLUID CONDITION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<1	1	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		4	<1	<1
Phosphorus	ppm	ASTM D5185m		0	3	5
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		1010	906	938
Acid Number (AN)	mg KOH/g	ASTM D8045		0.046	0.087	0.068
Visc @ 40°C	cSt	ASTM D445		11.9	11.9	11.8
Visc @ 100°C	cSt	ASTM D445		3.34	3.18	3.2
Viscosity Index (VI)	Scale	ASTM D2270		163	136	142

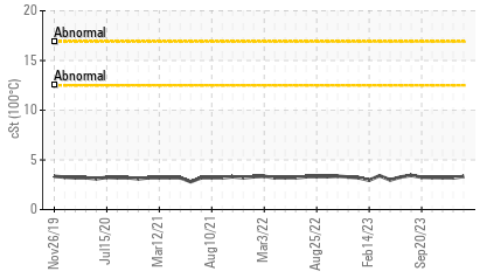
Particle Count



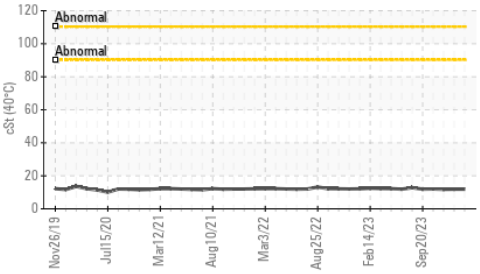
Acid Number



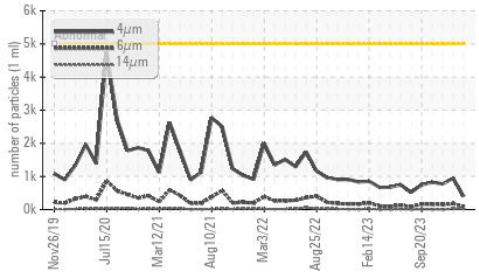
Viscosity @ 100°C



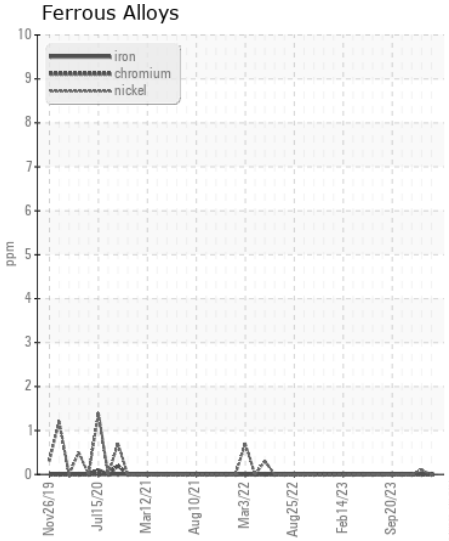
Viscosity @ 40°C



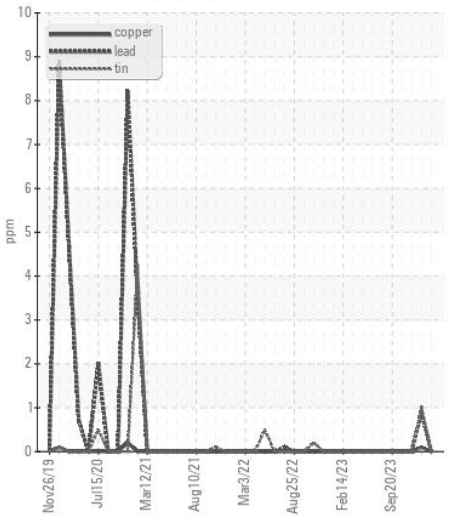
Particle Trend



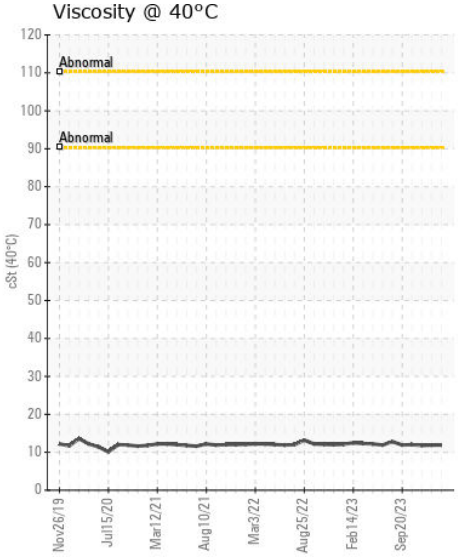
Ferrous Alloys



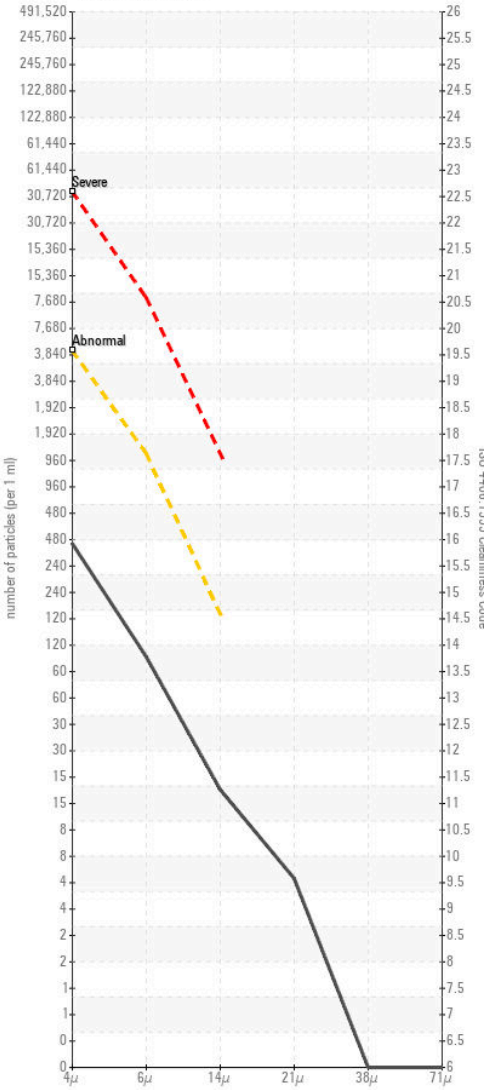
Non-ferrous Metals



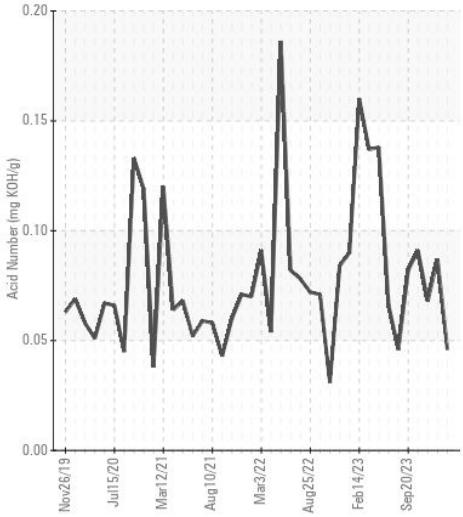
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0031259
Lab Number : 06102126
Unique Number : 10900356
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

Certificate L2367

Received : 27 Feb 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 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