MOB II | TULCO OILS 006 - National Division | WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JAL NM
Machine Id
MRC-205
Component
Compressor
Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

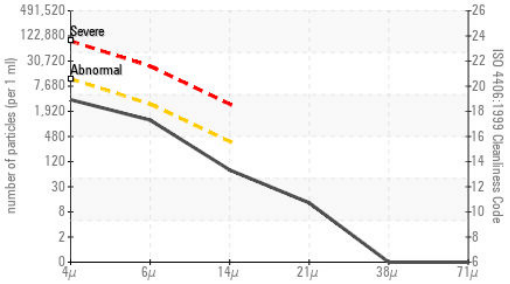
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

FLUID CONDITION

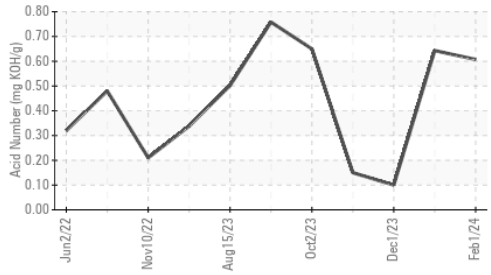
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60001980	TO60002010	TO60001904
Sample Date		Client Info		01 Feb 2024	11 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		22608	22140	21172
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	0	2	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>25	2	6	4
Copper	ppm	ASTM D5185m	>50	22	▲ 75	▲ 61
Tin	ppm	ASTM D5185m	>15	2	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.1	0.008	0.005	0.020
ppm Water	ppm	ASTM D6304	>1000	90	51	208
Particles >4µm		ASTM D7647	>10000	3182	2219	7425
Particles >6µm		ASTM D7647	>2500	1039	344	1642
Particles >14µm		ASTM D7647	>320	67	7	59
Particles >21µm		ASTM D7647	>80	11	2	10
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/13	18/16/10	20/18/13
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	5
Boron	ppm	ASTM D5185m	100	82	76	65
Barium	ppm	ASTM D5185m		<1	3	0
Molybdenum	ppm	ASTM D5185m	1	0	2	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	10	7	8	9
Calcium	ppm	ASTM D5185m	1150	1206	1215	1068
Phosphorus	ppm	ASTM D5185m	290	281	311	247
Zinc	ppm	ASTM D5185m	272	308	316	284
Sulfur	ppm	ASTM D5185m	1900	2996	2003	1573
Acid Number (AN)	mg KOH/g	ASTM D8045		0.607	0.643	0.10
Visc @ 40°C	cSt	ASTM D445	122	128	129	129
Visc @ 100°C	cSt	ASTM D445	13	13.3	13.3	13.2
Viscosity Index (VI)	Scale	ASTM D2270	103	97	97	95

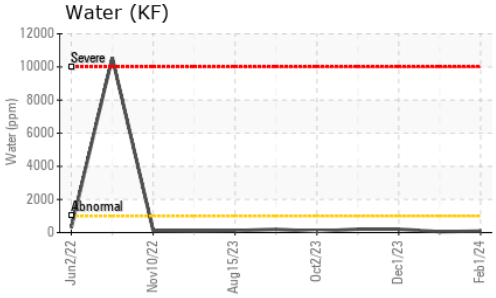
Particle Count



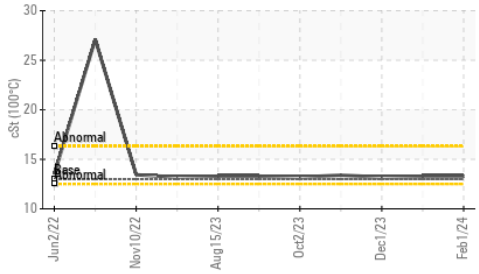
Acid Number



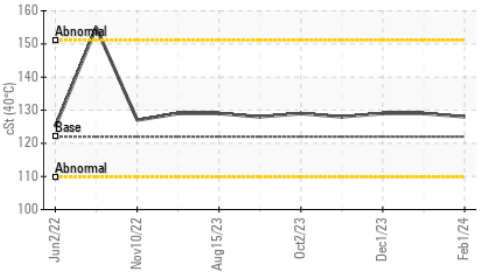
Water (KF)



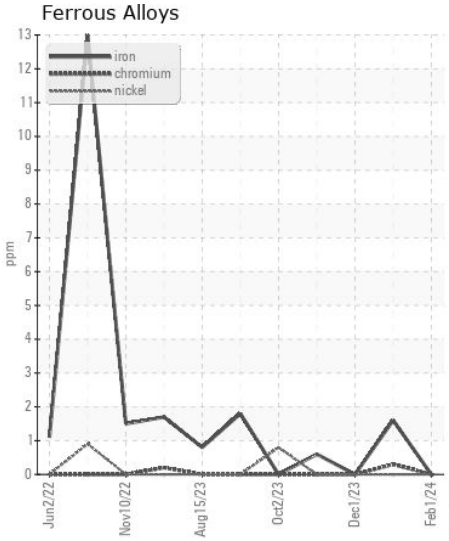
Viscosity @ 100°C



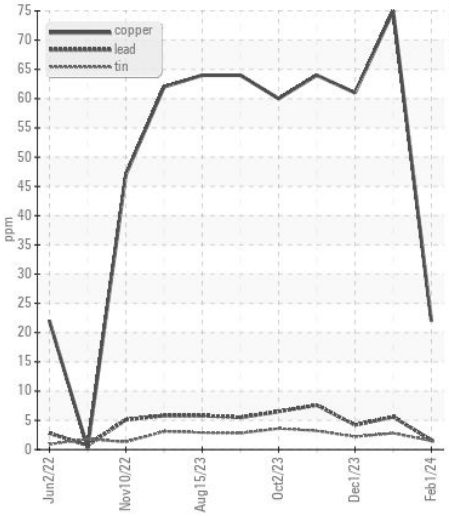
Viscosity @ 40°C



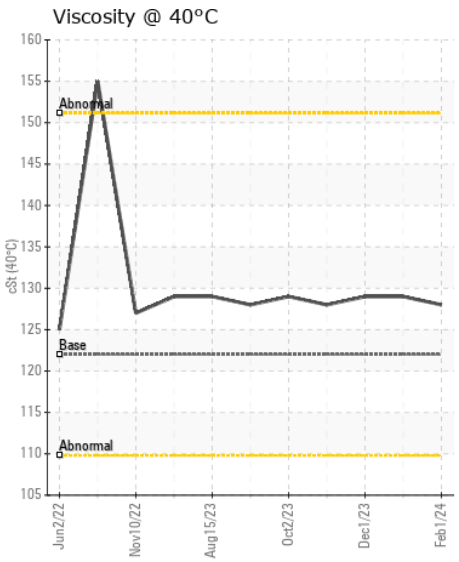
Ferrous Alloys



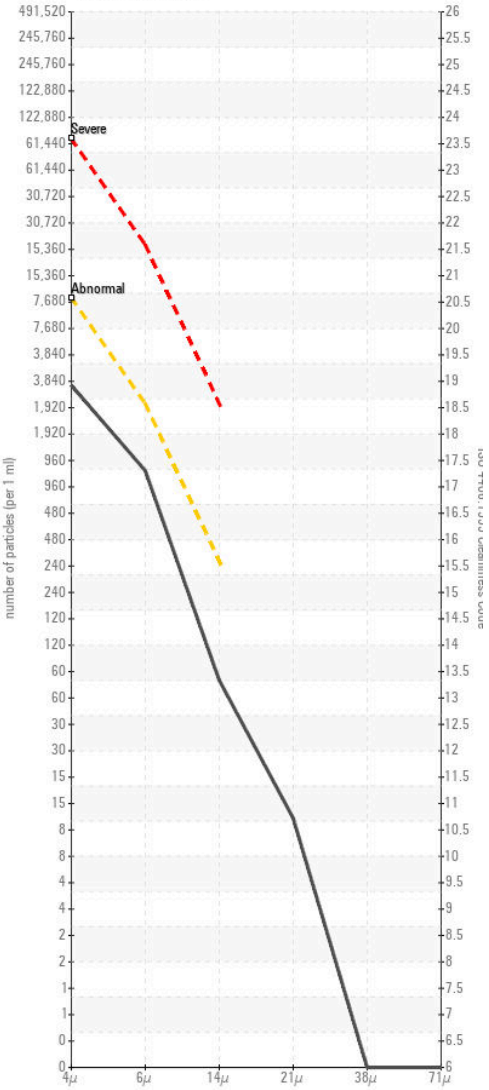
Non-ferrous Metals



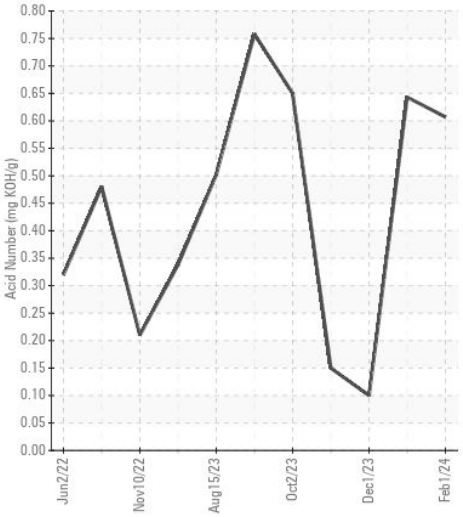
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001980
Lab Number : 06087289
Unique Number : 10874734
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Wes Davis

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)

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