MOB II

TULCO OILS 006 - National Division

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
5509 CHAMPIONS DR
Machine Id
MRC-292
Component
Natural Gas Engine
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

There is no indication of any contamination in the oil.

FLUID CONDITION

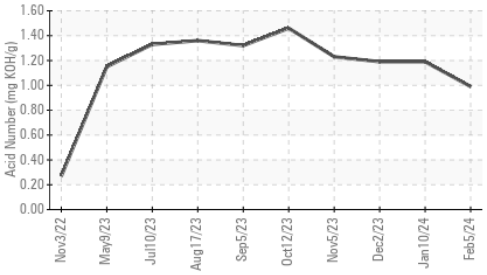
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002105	TO60001972	TO60001916
Sample Date		Client Info		05 Feb 2024	10 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		8938	8163	7436
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	7	7	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	<1
Lead	ppm	ASTM D5185m	>30	15	15	15
Copper	ppm	ASTM D5185m	>35	3	3	2
Tin	ppm	ASTM D5185m	>4	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
Silicon	ppm	ASTM D5185m	>+100	<1	2	2
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.0	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.9	17.5
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		<1	0	3
Boron	ppm	ASTM D5185m	100	95	87	93
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m	1	<1	1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	10	11	12	11
Calcium	ppm	ASTM D5185m	1150	1412	1332	1478
Phosphorus	ppm	ASTM D5185m	290	285	324	298
Zinc	ppm	ASTM D5185m	272	345	313	337
Sulfur	ppm	ASTM D5185m	1900	1977	1854	1583
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.4	16.9
Acid Number (AN)	mg KOH/g	ASTM D8045		0.99	1.19	1.19
Base Number (BN)	mg KOH/g	ASTM D2896	4.2	3.95	3.93	4.27
Visc @ 40°C	cSt	ASTM D445	122	150	149	146
Visc @ 100°C	cSt	ASTM D445	13	14.5	14.3	14.2
Viscosity Index (VI)	Scale	ASTM D2270	103	94	92	94

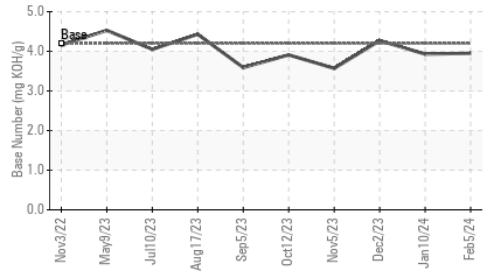
Report Id: EOGMID [WUSCAR] 06087584 (Generated: 02/14/2024 11:36:19) Rev: 1

Contact/Location: HERMAN GARZA - EOGMID

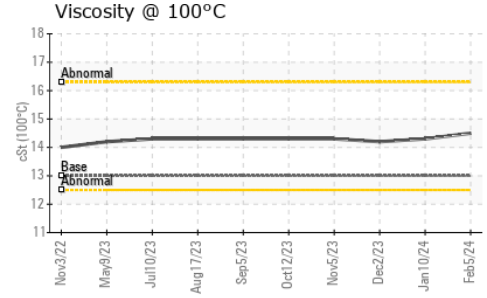
Acid Number



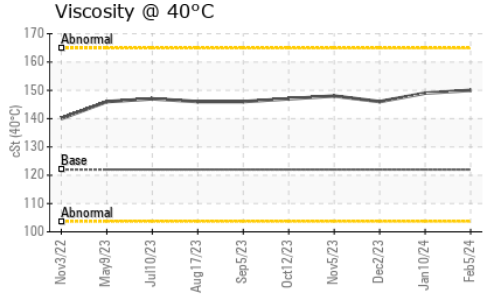
Base Number



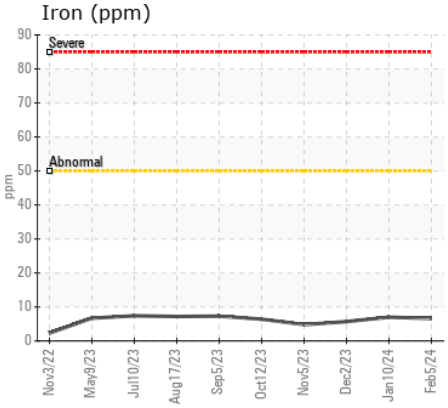
Viscosity @ 100°C



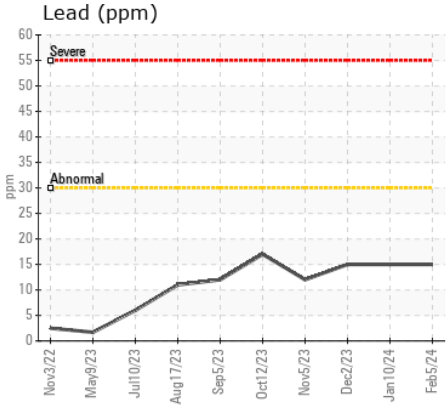
Viscosity @ 40°C



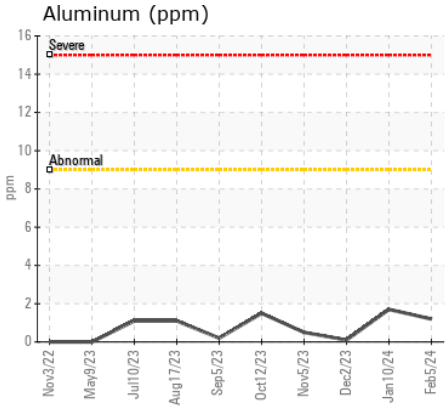
Iron (ppm)



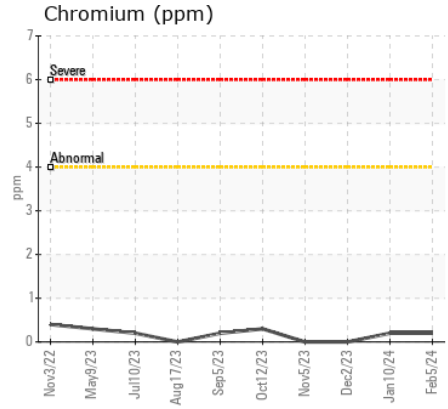
Lead (ppm)



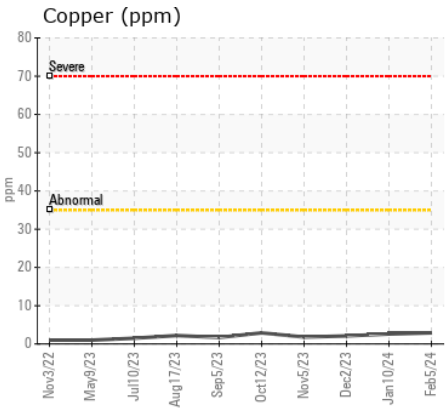
Aluminum (ppm)



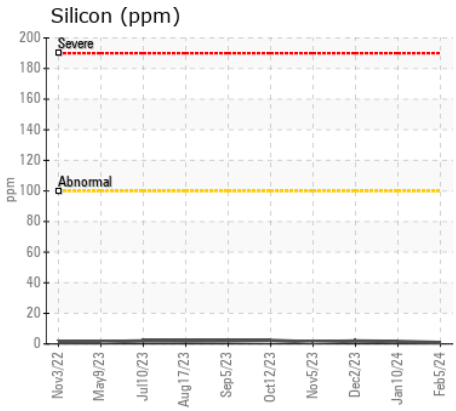
Chromium (ppm)



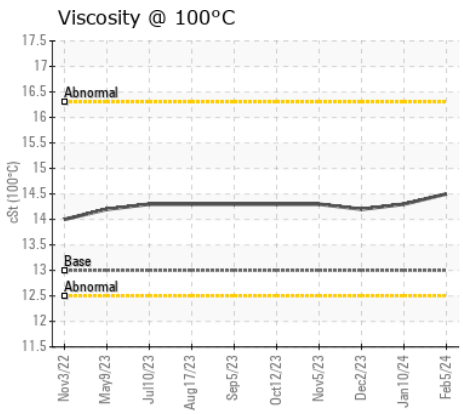
Copper (ppm)



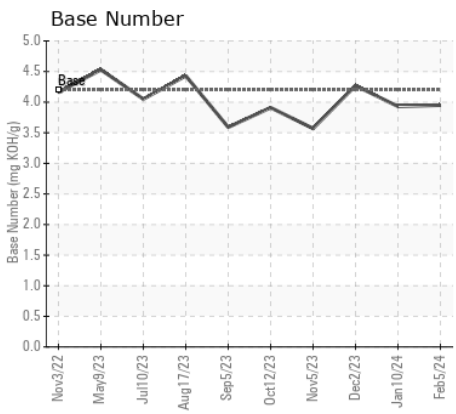
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002105
Lab Number : 06087584
Unique Number : 10875029
Test Package : MOB 2 (Additional Tests: KV40, 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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