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

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-320
Component
Natural Gas Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

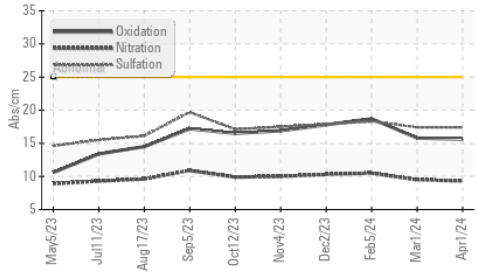
There is no indication of any contamination in the oil.

FLUID CONDITION

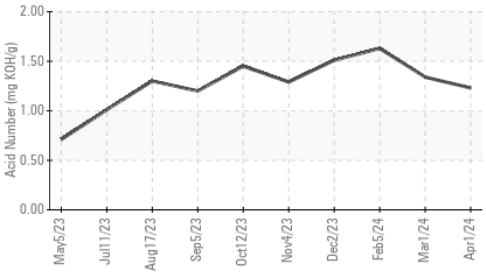
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**TO60002316**	TO60002138	TO60002152
Sample Date		Client Info		**01 Apr 2024**	01 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		**6286**	6256	6088
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
Iron	ppm	ASTM D5185m	>50	**4**	2	7
Chromium	ppm	ASTM D5185m	>4	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**<1**	2	1
Lead	ppm	ASTM D5185m	>30	**5**	6	23
Copper	ppm	ASTM D5185m	>35	**2**	2	4
Tin	ppm	ASTM D5185m	>4	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	**1**	1	1
Potassium	ppm	ASTM D5185m	>20	**0**	1	3
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**9.3**	9.5	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**17.4**	17.4	18.3
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	0
Boron	ppm	ASTM D5185m		**85**	85	103
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	2	2
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**25**	17	19
Calcium	ppm	ASTM D5185m		**1293**	1246	1364
Phosphorus	ppm	ASTM D5185m		**267**	272	276
Zinc	ppm	ASTM D5185m		**277**	312	344
Sulfur	ppm	ASTM D5185m		**1598**	1440	1624
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.6**	15.8	18.7
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.23**	1.34	1.63
Base Number (BN)	mg KOH/g	ASTM D2896		**3.52**	3.67	3.50
Visc @ 40°C	cSt	ASTM D445		**143**	143	148
Visc @ 100°C	cSt	ASTM D445		**13.9**	13.9	14.3
Viscosity Index (VI)	Scale	ASTM D2270		**92**	92	93

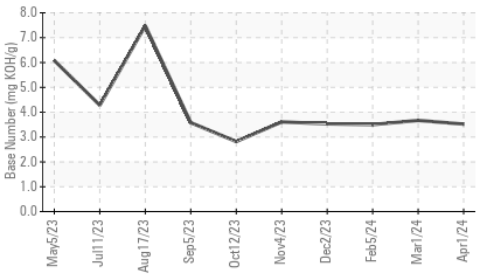
FT-IR (Direct Trend)



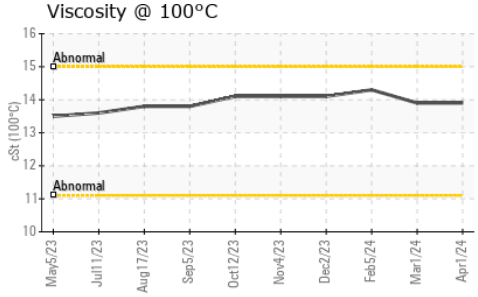
Acid Number



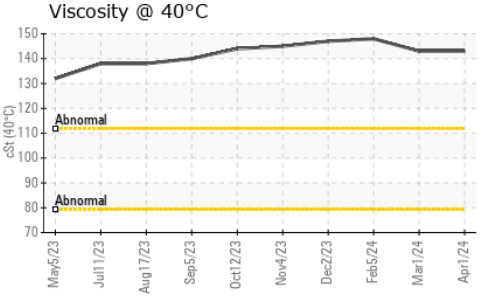
Base Number



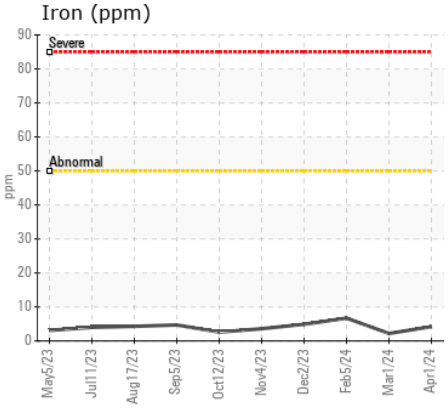
Viscosity @ 100°C



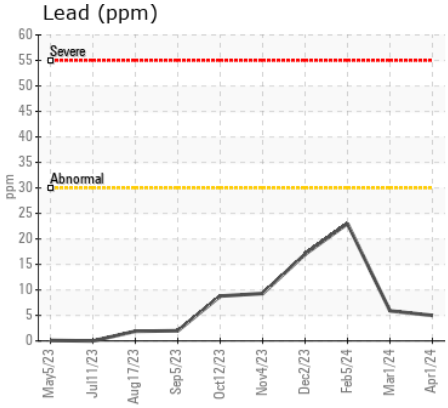
Viscosity @ 40°C



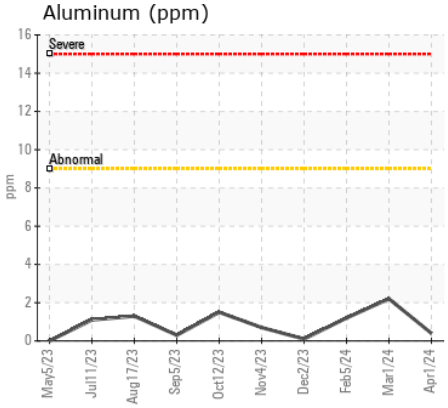
Iron (ppm)



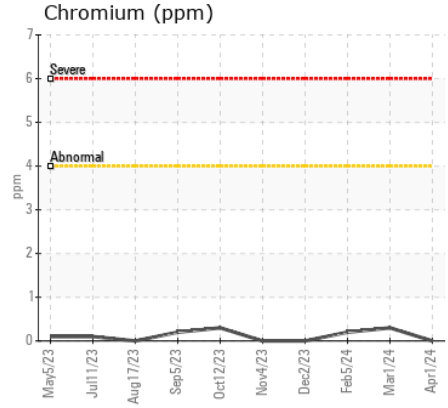
Lead (ppm)



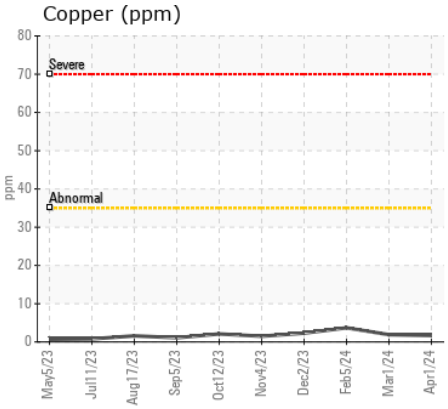
Aluminum (ppm)



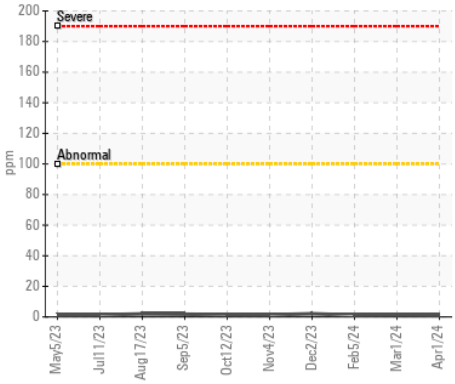
Chromium (ppm)



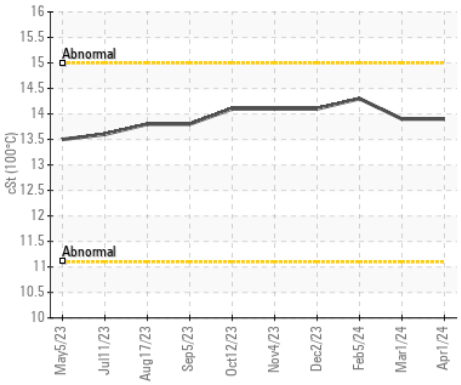
Copper (ppm)



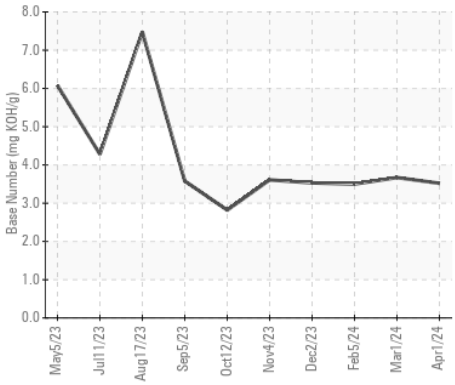
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002316
Lab Number : 06154627
Unique Number : 10990050
Test Package : MOB 2 (Additional Tests: KV40, VI)

Received : 19 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Jonathan Hester

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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