MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
27279
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

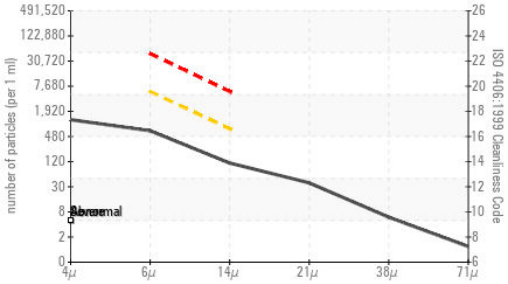
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

FLUID CONDITION

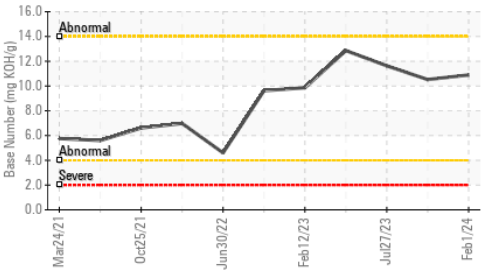
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0012018	KL0012115	KL0011943
Sample Date		Client Info		01 Feb 2024	31 Oct 2023	27 Jul 2023
Machine Age	mls	Client Info		44073	41366	37920
Oil Age	mls	Client Info		41366	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
Iron	ppm	ASTM D5185m	>100	8	11	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	3	2	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	5	4
Potassium	ppm	ASTM D5185m	>20	14	9	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.1	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	24.2	18.4
Particles >4µm		ASTM D7647		1061	4202	3567
Particles >6µm		ASTM D7647	>5000	578	2289	1943
Particles >14µm		ASTM D7647	>640	98	390	331
Particles >21µm		ASTM D7647	>160	33	131	111
Particles >38µm		ASTM D7647	>40	5	20	17
Particles >71µm		ASTM D7647	>10	1	2	2
Oil Cleanliness		ISO 4406 (c)	>19/16	16/14	18/16	18/16
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	3	2
Boron	ppm	ASTM D5185m		69	42	142
Barium	ppm	ASTM D5185m		11	0	0
Molybdenum	ppm	ASTM D5185m		60	61	65
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		999	1150	1142
Calcium	ppm	ASTM D5185m		866	986	1008
Phosphorus	ppm	ASTM D5185m		951	1113	1113
Zinc	ppm	ASTM D5185m		1143	1362	1326
Sulfur	ppm	ASTM D5185m		3405	3505	4302
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	25.1	14.4
Base Number (BN)	mg KOH/g	ASTM D2896		10.89	10.52	11.63
Visc @ 100°C	cSt	ASTM D445		13.7	13.1	14.3

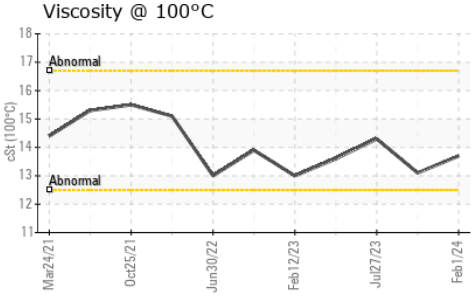
Particle Count



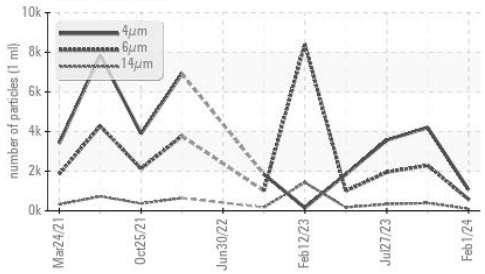
Base Number



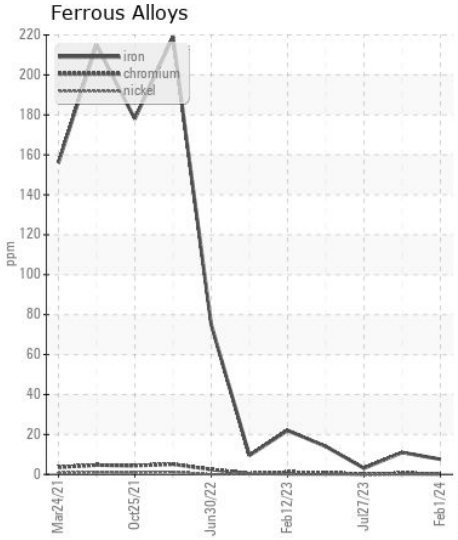
Viscosity @ 100°C



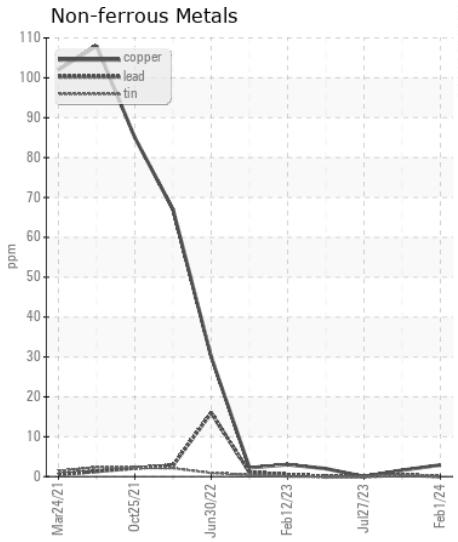
Particle Trend



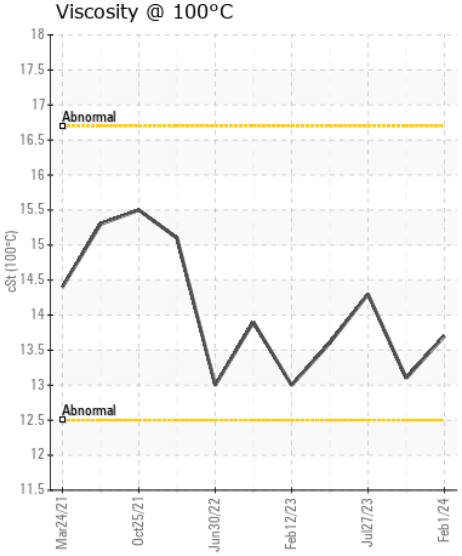
Ferrous Alloys



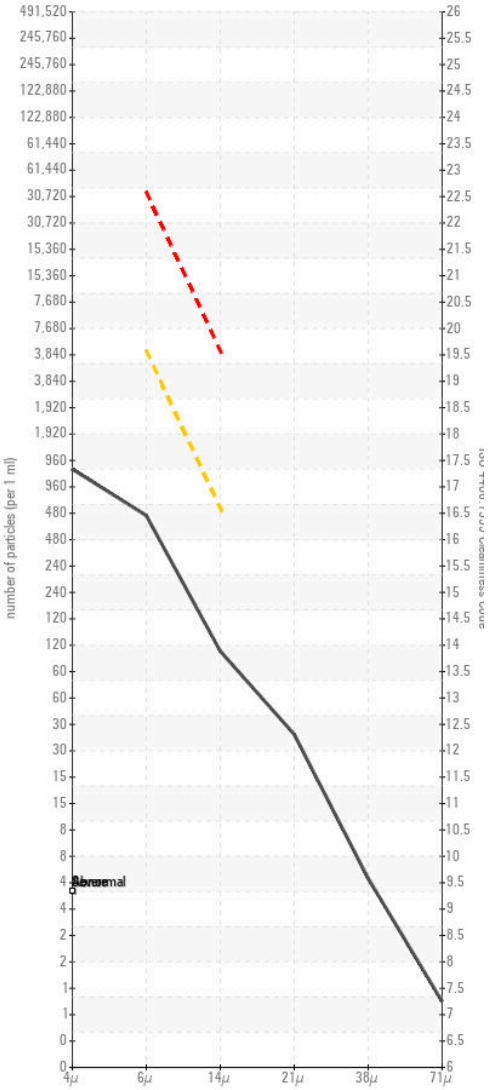
Non-ferrous Metals



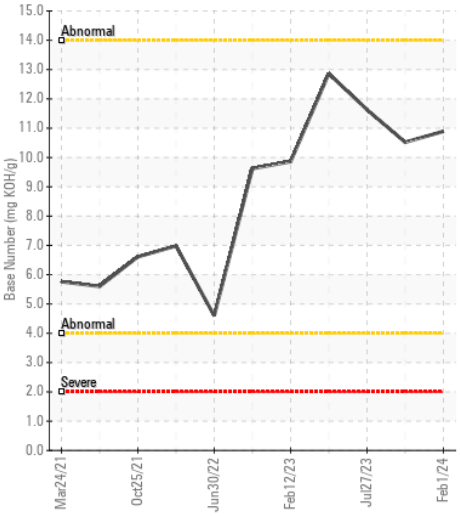
Viscosity @ 100°C



Particle Count



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012018
Lab Number : 06089647
Unique Number : 10877092
Test Package : MOB 2 (Additional Tests: PrtCount)

Certificate L2367

Received : 14 Feb 2024
Tested : 16 Feb 2024
Diagnosed : 16 Feb 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)

CITY & COUNTY HONOLULU
99-999 IWAENA RD
AIEA, HI
US 96701
Contact: CLYDE OMIJA
comija@honolulu.gov
T: (575)623-9952
F: