MOB II

HIGH PERFORMANCE LUBRICANTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOUTH HOLLAND
Machine Id
TEREX RT665 RT3758 (S/N 13758)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

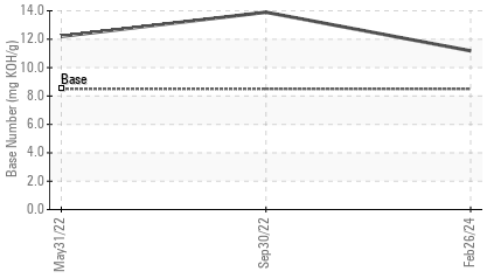
There is no indication of any contamination in the oil.

FLUID CONDITION

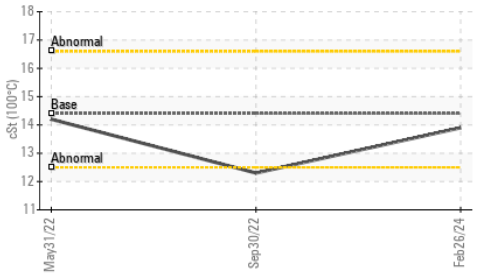
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0002523	HPL0002127	HPL010042
Sample Date		Client Info		26 Feb 2024	30 Sep 2022	31 May 2022
Machine Age	hrs	Client Info		7259	6333	7519
Oil Age	hrs	Client Info		0	0	675
Filter Age	hrs	Client Info		0	0	675
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>90	28	12	28
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	3	4
Lead	ppm	ASTM D5185m	>40	4	5	1
Copper	ppm	ASTM D5185m	>330	15	4	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	9	8
Potassium	ppm	ASTM D5185m	>20	16	6	2
Fuel		WC Method	>3.0	<1.0	▲ 1.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	14.5	12.0	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	39.1	39.0	30.9
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		53	12	1
Boron	ppm	ASTM D5185m	250	9	27	206
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	520	509	344
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	937	886	445
Calcium	ppm	ASTM D5185m	3000	2769	2591	3452
Phosphorus	ppm	ASTM D5185m	1150	924	1016	831
Zinc	ppm	ASTM D5185m	1350	1202	1192	1025
Sulfur	ppm	ASTM D5185m	4250	8892	10028	14946
Oxidation	Abs/.1mm	*ASTM D7414	>25	43.2	41.4	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.18	13.9	12.2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	● 12.3	14.2

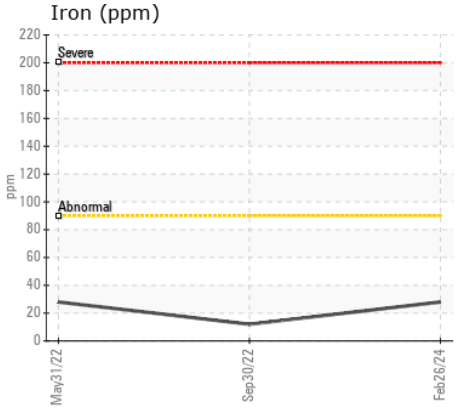
Base Number



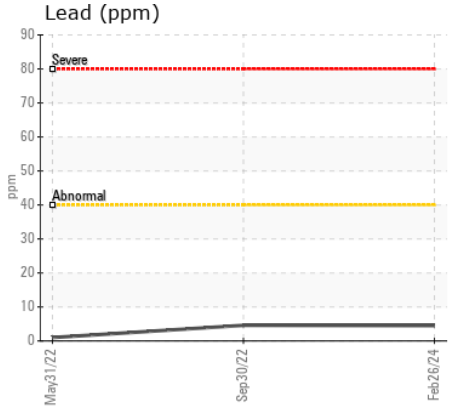
Viscosity @ 100°C



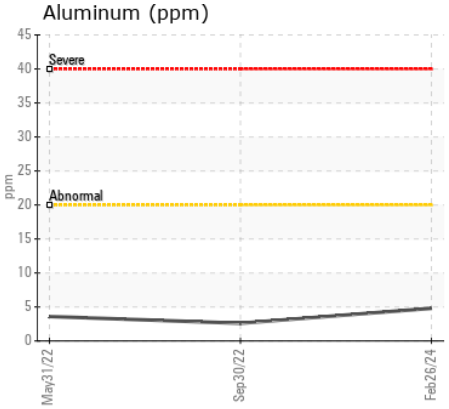
Iron (ppm)



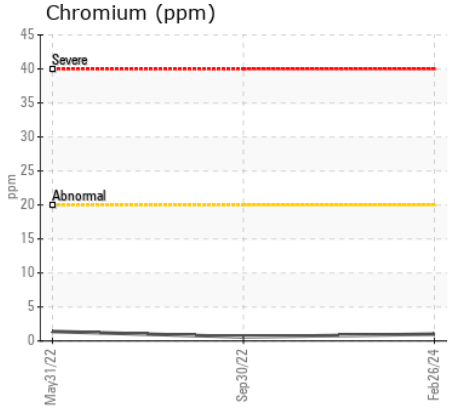
Lead (ppm)



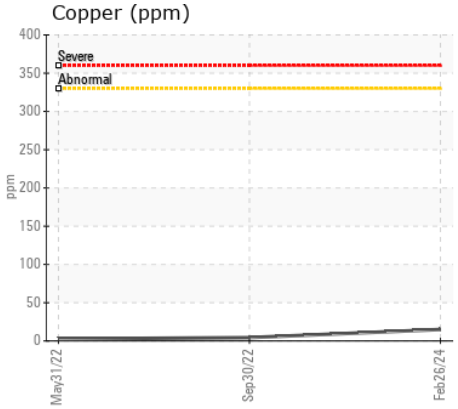
Aluminum (ppm)



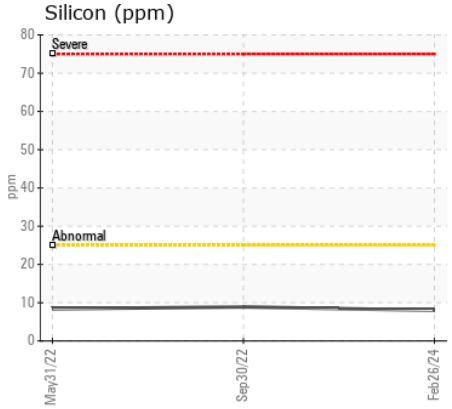
Chromium (ppm)



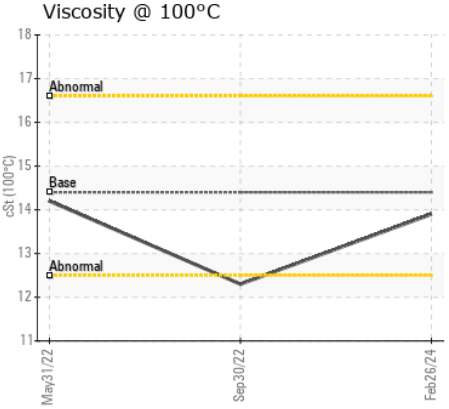
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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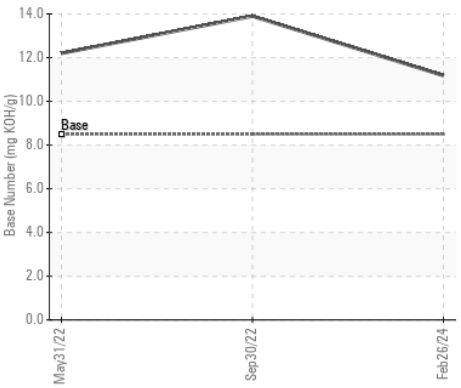

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0002523
Lab Number : 06103184
Unique Number : 10901414
Test Package : MOB 2

Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 01 Mar 2024 - Sean Felton

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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