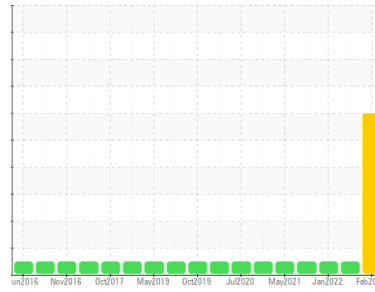




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
TEREX ADVANCE MIXER 60428588
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

DIAGNOSIS

▲ Recommendation

We advise that you perform a borescope exam. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Cylinder, crank, or cam shaft wear is indicated.

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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RW0004897	RW0003120	RW0002145
Sample Date	Client Info		26 Feb 2024	01 Jun 2022	12 Jan 2022
Machine Age	hrs	Client Info	7752	8440	8040
Oil Age	hrs	Client Info	400	400	398
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	▲ 506	15	20
Chromium	ppm	ASTM D5185m >4	8	1	1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m >2	0	0	0
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >15	5	2	2
Lead	ppm	ASTM D5185m >50	31	2	2
Copper	ppm	ASTM D5185m >55	12	2	2
Tin	ppm	ASTM D5185m >4	2	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	28	95	75
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	25	40	45
Manganese	ppm	ASTM D5185m	3	<1	<1
Magnesium	ppm	ASTM D5185m 0	615	458	500
Calcium	ppm	ASTM D5185m	1761	1780	1743
Phosphorus	ppm	ASTM D5185m	865	762	711
Zinc	ppm	ASTM D5185m	1007	922	861
Sulfur	ppm	ASTM D5185m	3301	3044	2836

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	15	4	5
Sodium	ppm	ASTM D5185m	7	4	4
Potassium	ppm	ASTM D5185m >20	2	0	0
Fuel	%	ASTM D3524 >3.0	<1.0	<1.0	<1.0

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	5.6	1.5	2
Nitration	Abs/cm	*ASTM D7624 >20	17.0	9.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	35.2	25.6	26.1

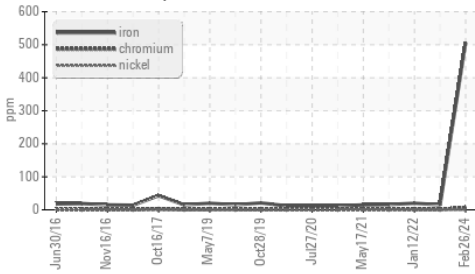
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.7	21.5	21.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	5.19	7.72	7.94

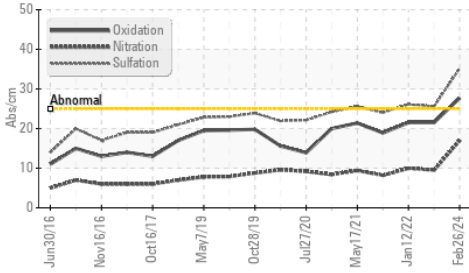


OIL ANALYSIS REPORT

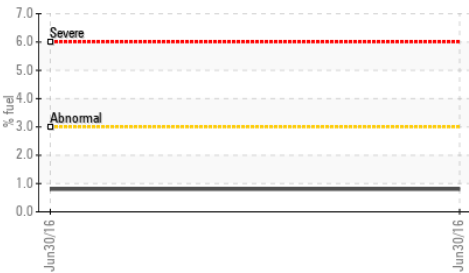
▲ Ferrous Alloys



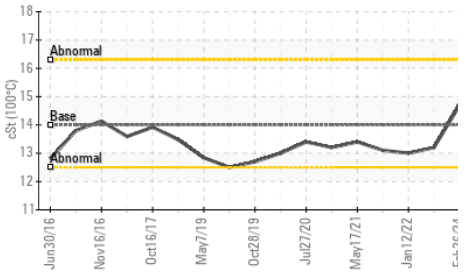
FT-IR (Direct Trend)



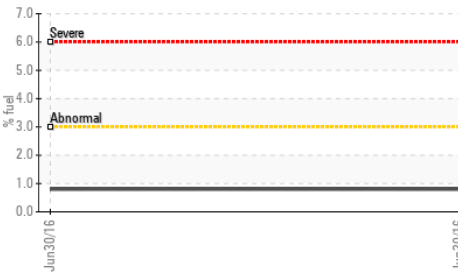
Fuel Dilution



Viscosity @ 100°C



Fuel Dilution

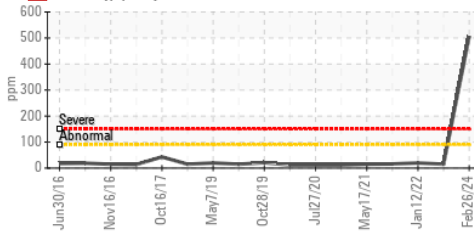


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

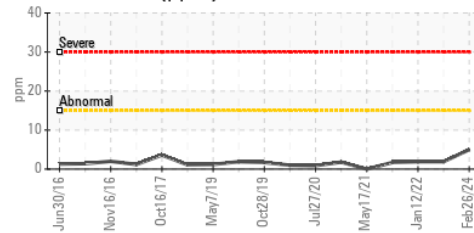
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	14.7	13.2	13.0

GRAPHS

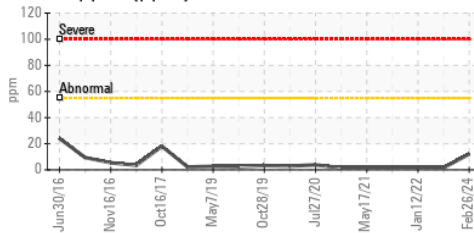
▲ Iron (ppm)



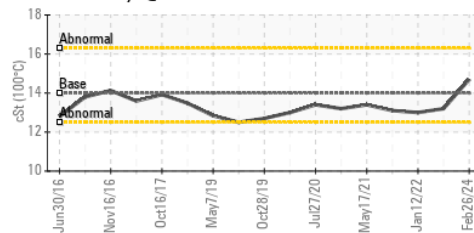
Aluminum (ppm)



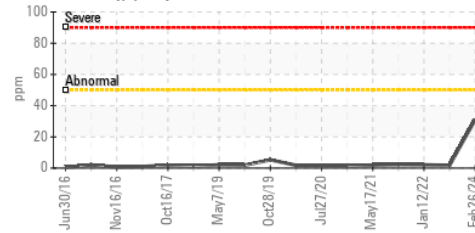
Copper (ppm)



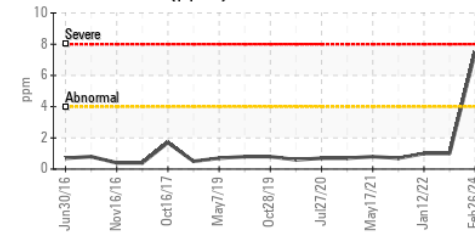
Viscosity @ 100°C



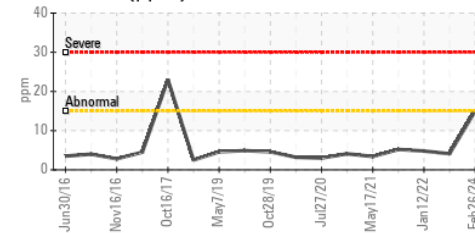
Lead (ppm)



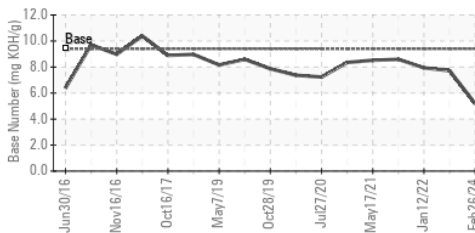
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RW0004897

Lab Number : 06160999

Unique Number : 10996422

Test Package : MOB 2 (Additional Tests: FUELDILUTION)

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)

Received : 25 Apr 2024

Tested : 29 Apr 2024

Diagnosed : 29 Apr 2024 - Don Baldrige

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