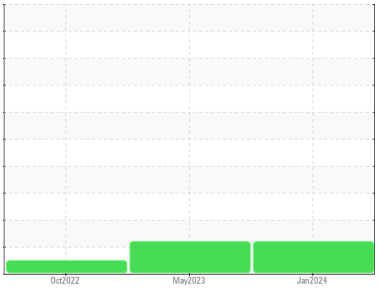
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
TEREX T340 TC0081
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Light fuel dilution occurring.

Fluid Condition
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**HPL0004149**	HPL0003153	HPL0000386
Sample Date		Client Info		**09 Jan 2024**	11 May 2023	28 Oct 2022
Machine Age	hrs	Client Info		**1784**	7087	456
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	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	>100	**43**	37	35
Chromium	ppm	ASTM D5185m	>20	**1**	1	1
Nickel	ppm	ASTM D5185m	>4	**2**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**12**	6	7
Lead	ppm	ASTM D5185m	>40	**<1**	0	0
Copper	ppm	ASTM D5185m	>330	**39**	30	33
Tin	ppm	ASTM D5185m	>15	**<1**	1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	**0**	16	2
Barium	ppm	ASTM D5185m	10	**<1**	0	2
Molybdenum	ppm	ASTM D5185m	100	**533**	541	596
Manganese	ppm	ASTM D5185m		**1**	1	<1
Magnesium	ppm	ASTM D5185m	450	**951**	971	963
Calcium	ppm	ASTM D5185m	3000	**2384**	2555	2692
Phosphorus	ppm	ASTM D5185m	1150	**906**	992	1060
Zinc	ppm	ASTM D5185m	1350	**1274**	1251	1280
Sulfur	ppm	ASTM D5185m	4250	**7227**	9106	9033

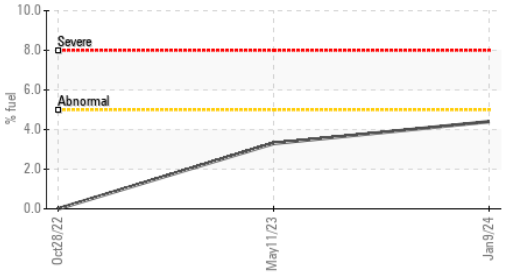
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**11**	13	12
Sodium	ppm	ASTM D5185m		**<1**	3	<1
Potassium	ppm	ASTM D5185m	>20	**2**	2	6
Fuel	%	ASTM D3524	>5	▲ **4.4**	▲ 3.3	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1**	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**16.7**	15.3	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**41.0**	40.0	41.7

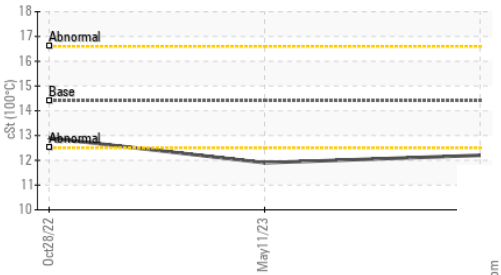
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**44.6**	43.4	44.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**11.71**	13.67	12.8

OIL ANALYSIS REPORT

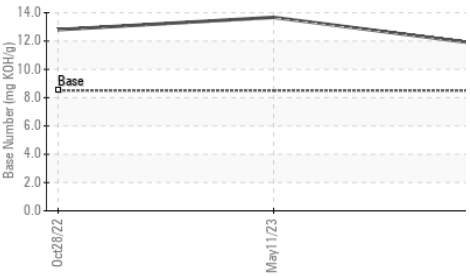
Fuel Dilution



Viscosity @ 100°C



Base Number

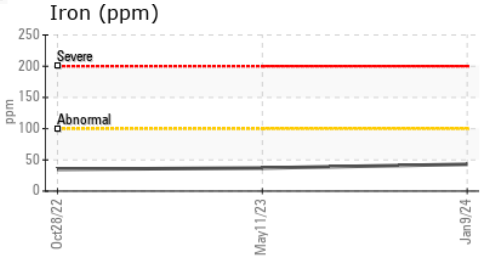


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

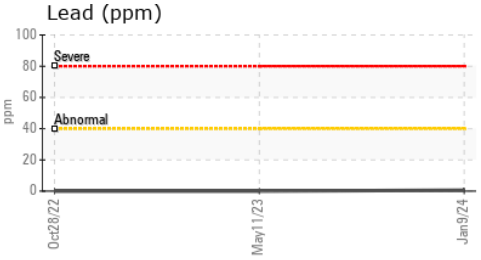
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	▲ **12.2**	▲ 11.9	12.9

GRAPHS

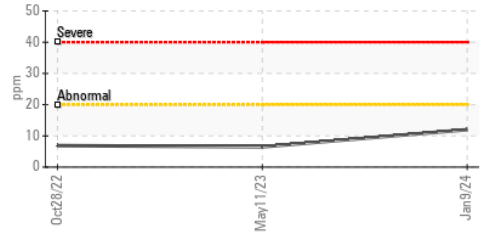
Iron (ppm)



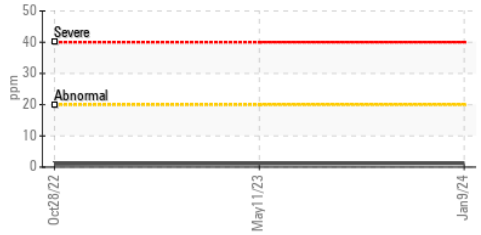
Lead (ppm)



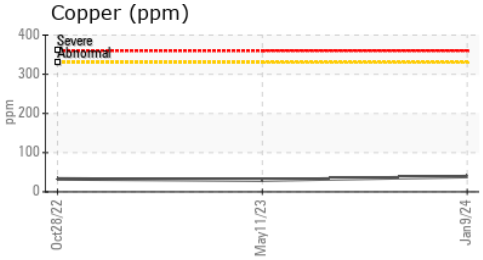
Aluminum (ppm)



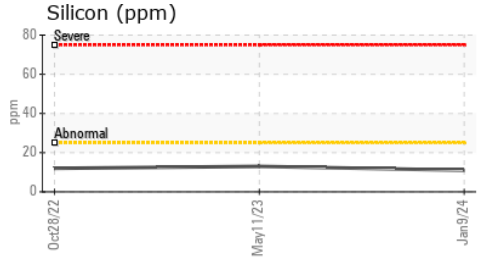
Chromium (ppm)



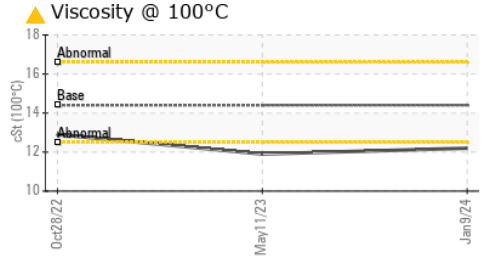
Copper (ppm)



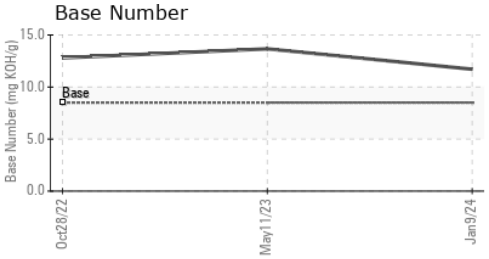
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0004149 **Recieved** : 12 Jan 2024
Lab Number : 06059434 **Diagnosed** : 16 Jan 2024
Unique Number : 10830816 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel)

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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