



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TEREX T340 TC4161 (S/N 14161)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0004138	HPL0002286	HPL0000477
Sample Date		Client Info		11 Jan 2024	30 Jan 2023	11 Jul 2022
Machine Age	hrs	Client Info		14765	14017	13641
Oil Age	hrs	Client Info		0	562	680
Filter Age	hrs	Client Info		0	562	680
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	41	24	33
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	3	3
Lead	ppm	ASTM D5185m	>40	4	3	3
Copper	ppm	ASTM D5185m	>330	7	3	2
Tin	ppm	ASTM D5185m	>15	<1	<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

CONTAMINATION

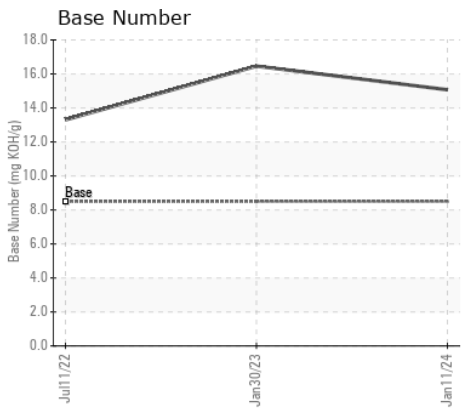
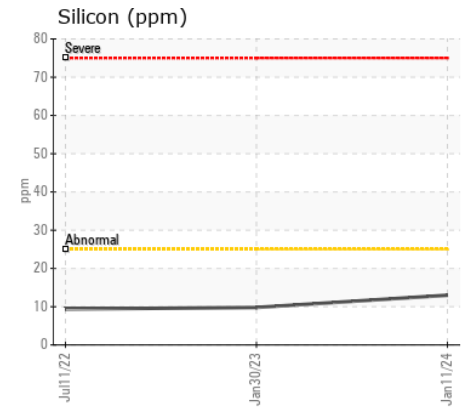
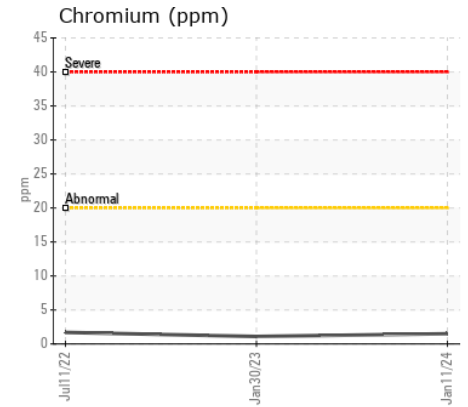
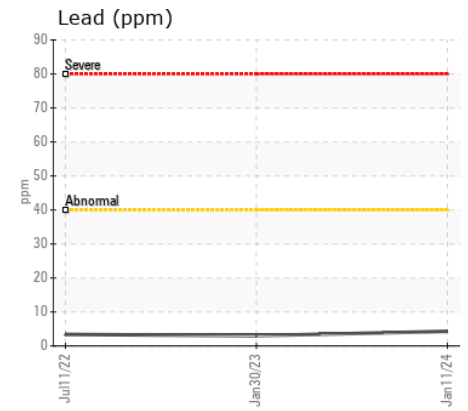
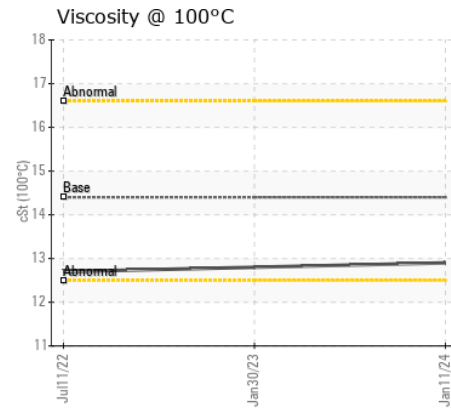
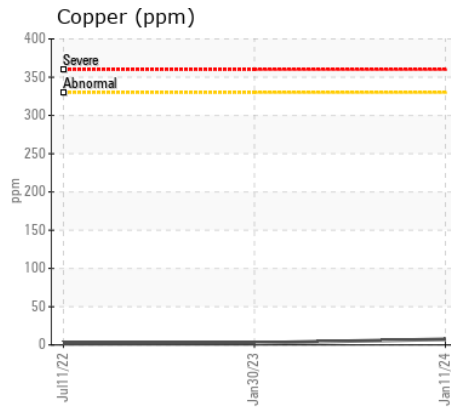
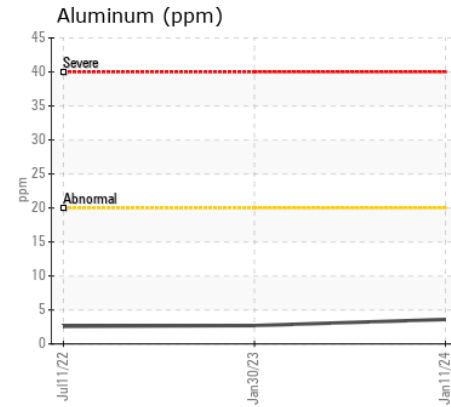
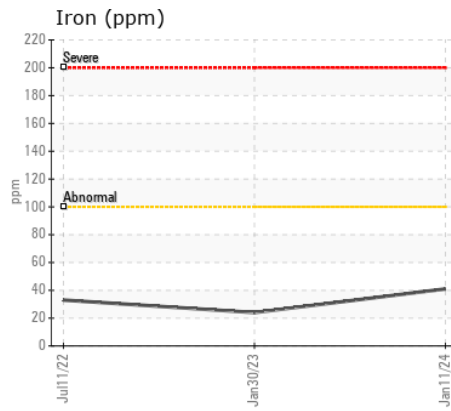
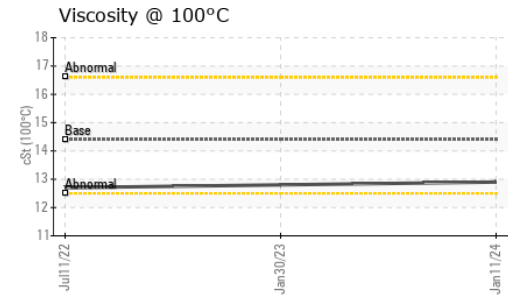
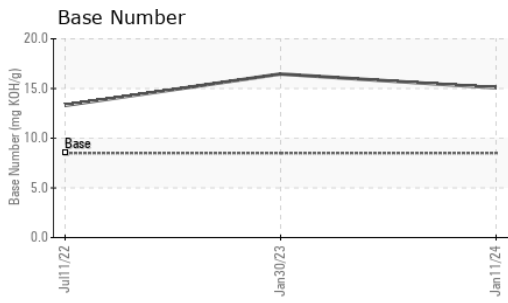
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	10	9
Potassium	ppm	ASTM D5185m	>20	0	1	<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	0.6	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	14.8	9.7	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.3	25.2	42.2
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

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.

Sodium	ppm	ASTM D5185m		1	0	0
Boron	ppm	ASTM D5185m	250	0	4	31
Barium	ppm	ASTM D5185m	10	<1	<1	0
Molybdenum	ppm	ASTM D5185m	100	613	594	625
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	1115	958	936
Calcium	ppm	ASTM D5185m	3000	2808	2655	2994
Phosphorus	ppm	ASTM D5185m	1150	1194	1068	1092
Zinc	ppm	ASTM D5185m	1350	1413	1263	1289
Sulfur	ppm	ASTM D5185m	4250	9168	7931	11940
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.2	16.9	41.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	15.07	16.46	13.3
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.8	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0004138 **Received** : 18 Jan 2024
Lab Number : 06064487 **Diagnosed** : 21 Jan 2024
Unique Number : 10835869 **Diagnostician** : Don Baldrige
Test Package : MOB 2

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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)