MOB II

HIGH PERFORMANCE LUBRICANTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
TEREX T340 TC0666 (S/N 220666)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

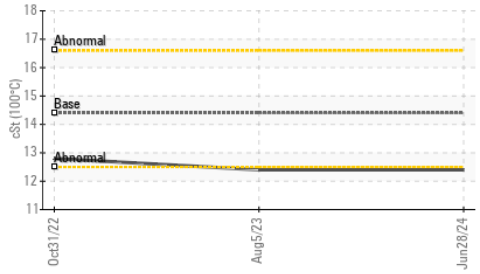
Light fuel dilution occurring.

FLUID CONDITION

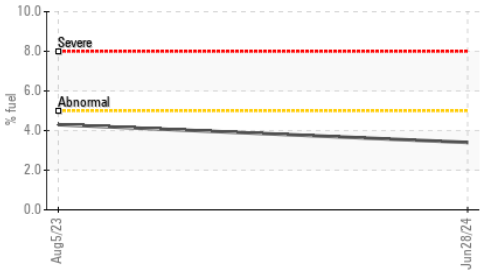
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0005140	HPL0003211	HPL0000117
Sample Date		Client Info		28 Jun 2024	05 Aug 2023	31 Oct 2022
Machine Age	hrs	Client Info		1468	5198	4487
Oil Age	hrs	Client Info		0	740	690
Filter Age	hrs	Client Info		0	740	690
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	32	38	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	6
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	32	49	32
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	9	9
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Fuel	%	ASTM D3524	>5	▲ 3.4	▲ 4.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	16.3	16.1	15.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.1	42.1	41.4
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		4	2	3
Boron	ppm	ASTM D5185m	250	1	0	32
Barium	ppm	ASTM D5185m	10	<1	0	<1
Molybdenum	ppm	ASTM D5185m	100	534	540	571
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	874	945	873
Calcium	ppm	ASTM D5185m	3000	2560	2518	2725
Phosphorus	ppm	ASTM D5185m	1150	920	895	1019
Zinc	ppm	ASTM D5185m	1350	1135	1211	1204
Sulfur	ppm	ASTM D5185m	4250	8430	9873	10041
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.0	45.0	43.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.90	11.17	13.8
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 12.4	▲ 12.4	12.8

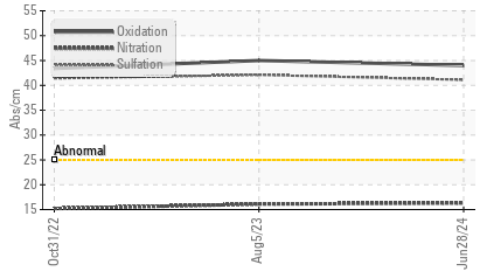
Viscosity @ 100°C



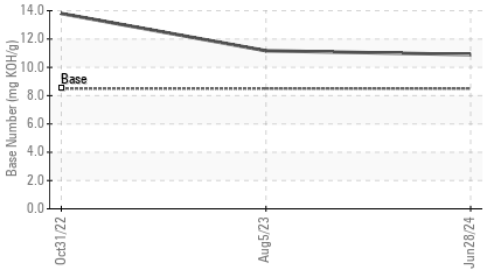
Fuel Dilution



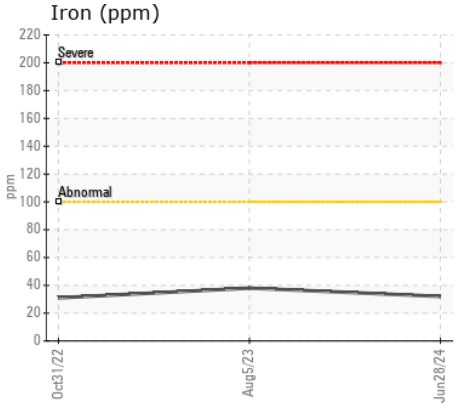
FT-IR (Direct Trend)



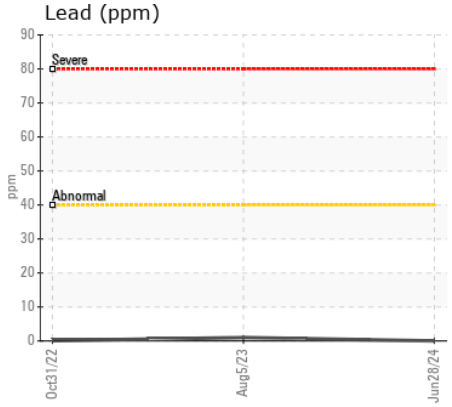
Base Number



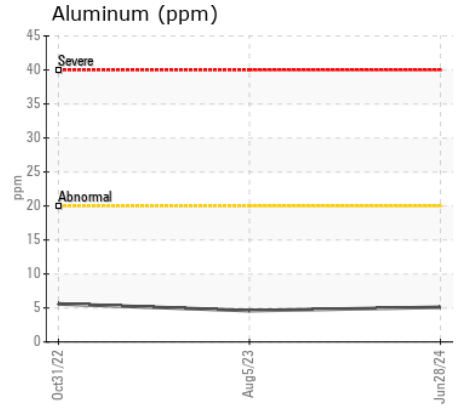
Iron (ppm)



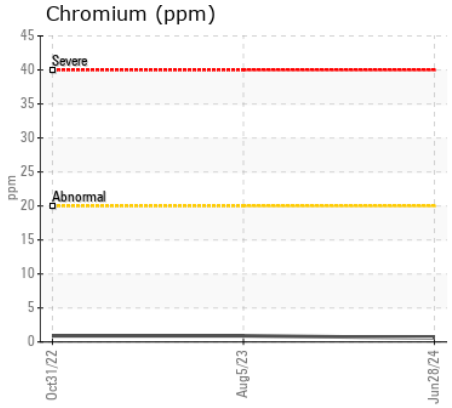
Lead (ppm)



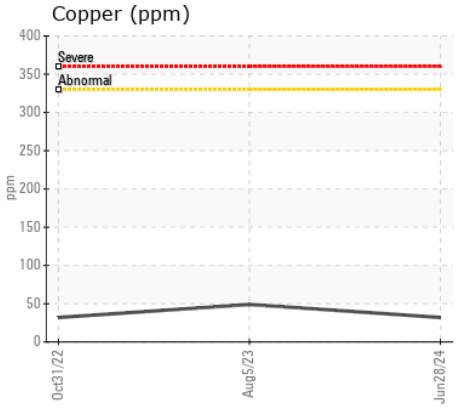
Aluminum (ppm)



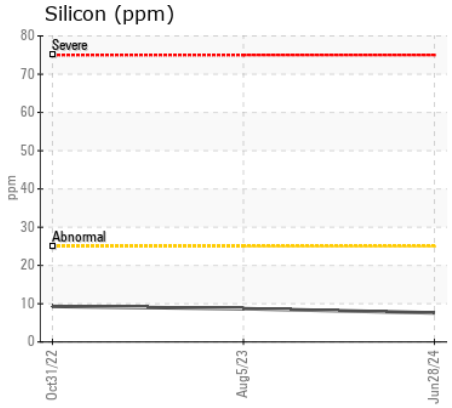
Chromium (ppm)



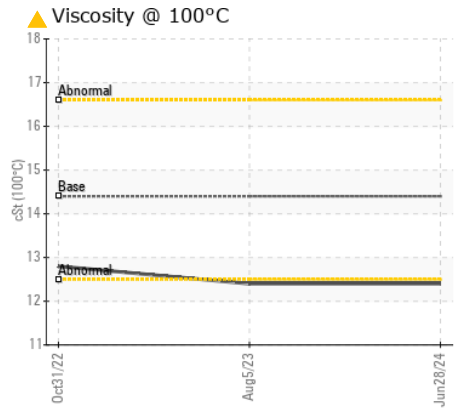
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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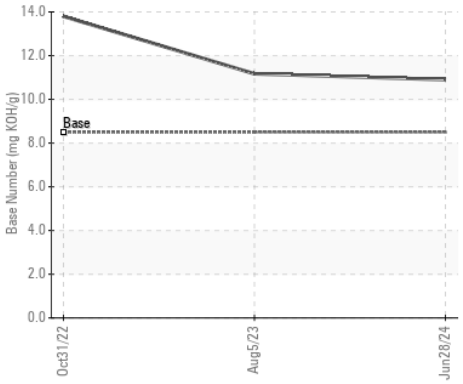

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0005140 **Received** : 10 Jul 2024
Lab Number : 06232409 **Tested** : 12 Jul 2024
Unique Number : 11115902 **Diagnosed** : 12 Jul 2024 - Sean Felton
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)

STEVENSON CRANE
410 STEVENSON DR
BOLINGBROOK, IL
US 60440
Contact: DAVE KOEHNE
davidk@stevensoncrane.com
T: (630)972-9199
F: