



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TIMBCO 41
Component
Diesel Engine
Fluid
AMSOIL (PCO) SYN HD DIESEL15W40 (22 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0294222	WC932822	WC932472
Sample Date		Client Info		15 Jun 2018	10 Mar 2016	15 Oct 2015
Machine Age	hrs	Client Info		29172	27165	26500
Oil Age	hrs	Client Info		900	665	1500
Filter Age	hrs	Client Info		900	665	1500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	22	82	▲ 106
Chromium	ppm	ASTM D5185(m)	>20	<1	5	5
Nickel	ppm	ASTM D5185(m)	>2	<1	2	2
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	6	4
Lead	ppm	ASTM D5185(m)	>40	1	4	11
Copper	ppm	ASTM D5185(m)	>330	5	3	6
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

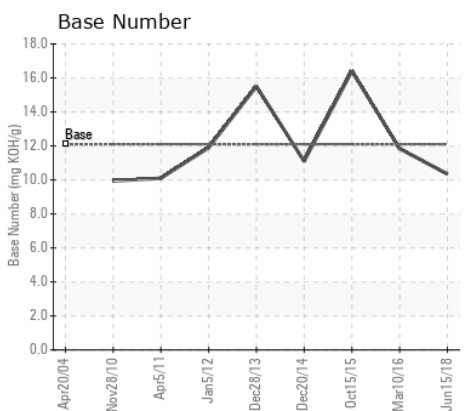
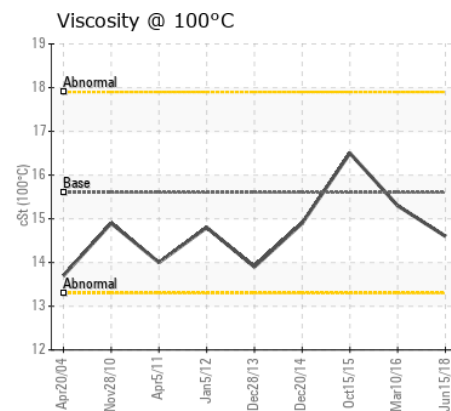
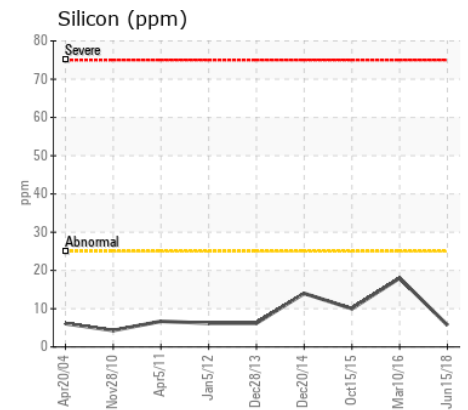
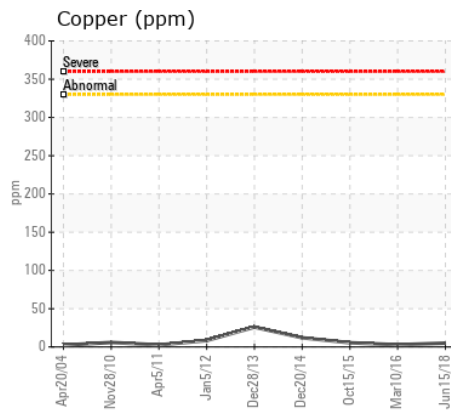
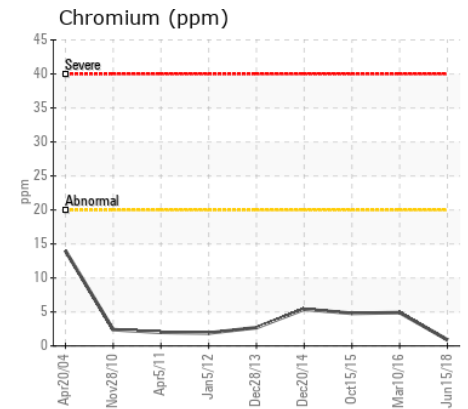
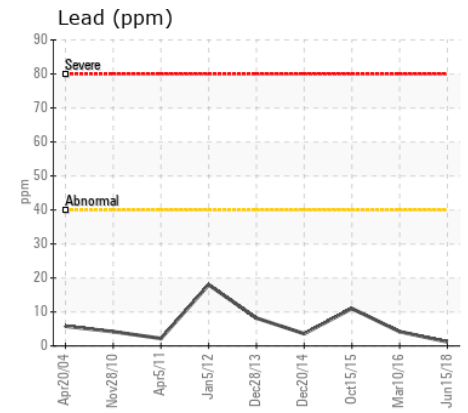
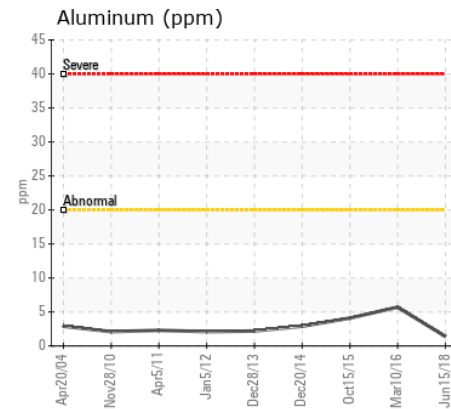
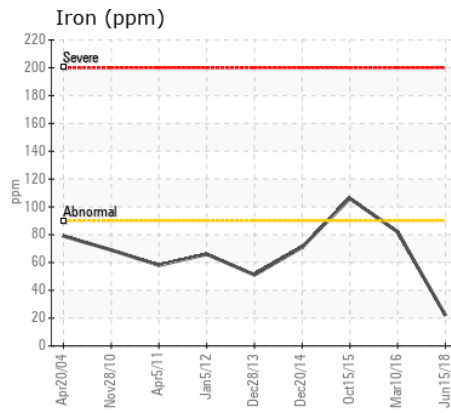
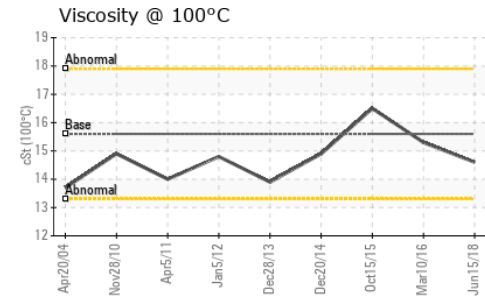
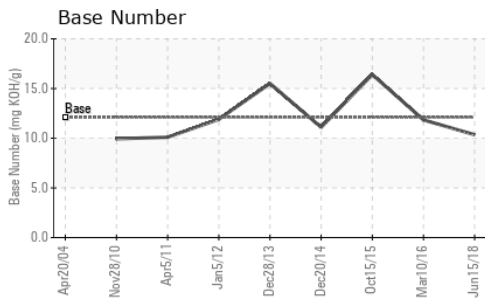
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	18	10
Potassium	ppm	ASTM D5185(m)	>20	1	3	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.1	0.9	1.7
Nitration	Abs/cm	ASTM D7624*	>25	7.5	11.3	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>35	18.6	65.3	68.7
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 D5185(m)		2	7	14
Boron	ppm	ASTM D5185(m)	7.2	2	2	2
Barium	ppm	ASTM D5185(m)	0.0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	<1	1	2
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)	460	32	17	18
Calcium	ppm	ASTM D5185(m)	2996	3595	4715	5139
Phosphorus	ppm	ASTM D5185(m)	1076	1907	1442	2505
Zinc	ppm	ASTM D5185(m)	1208	2377	1786	3080
Sulfur	ppm	ASTM D5185(m)	4236	5318	4681	6760
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.7	69.9	67.4
Base Number (BN)	mg KOH/g	ASTM D2896*	12.1	10.35	11.84	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.6	15.3	16.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0294222
Lab Number : 02223476
Unique Number : 4706606
Test Package : MOB 2
Received : 21 Jun 2018
Tested : 22 Jun 2018
Diagnosed : 22 Jun 2018 - Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.