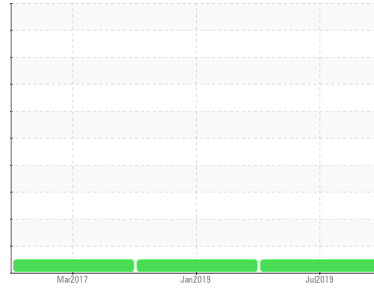




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**RAM 1**

Component

**Front Diesel Engine**

Fluid

**SHELL ROTELLA T6 5W40 (10 LTR)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PP</b>	PP	PP
Sample Date	Client Info			<b>28 Jul 2019</b>	20 Jan 2019	16 Mar 2017
Machine Age	kms	Client Info		<b>135067</b>	118822	40064
Oil Age	kms	Client Info		<b>16245</b>	15814	15700
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>10</b>	28	62
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	1	3
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	11	12
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	3	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

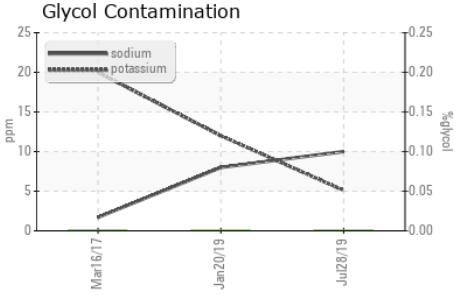
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>154</b>	92	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	3
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>80</b>	79	10
Calcium	ppm	ASTM D5185(m)		<b>1956</b>	1873	1614
Phosphorus	ppm	ASTM D5185(m)		<b>902</b>	781	635
Zinc	ppm	ASTM D5185(m)		<b>1078</b>	980	765
Sulfur	ppm	ASTM D5185(m)		<b>2824</b>	2684	1419
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	8
Sodium	ppm	ASTM D5185(m)		<b>10</b>	8	2
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	12	20
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.2</b>	14.6	15.4
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>23.9</b>	27.7	25.9



# OIL ANALYSIS REPORT

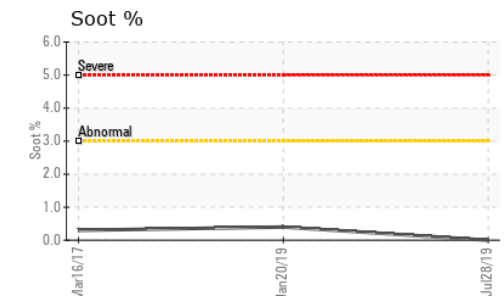
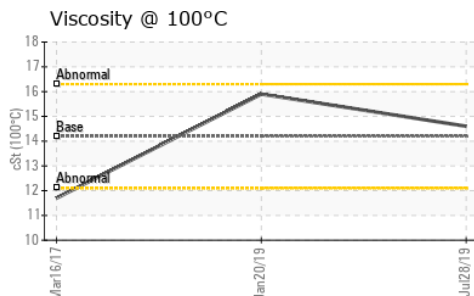
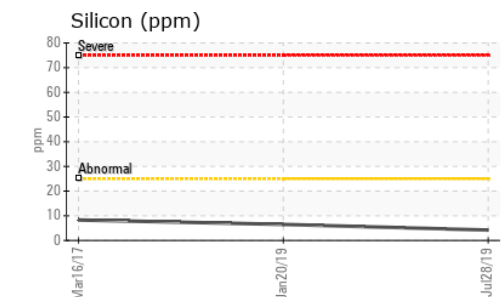
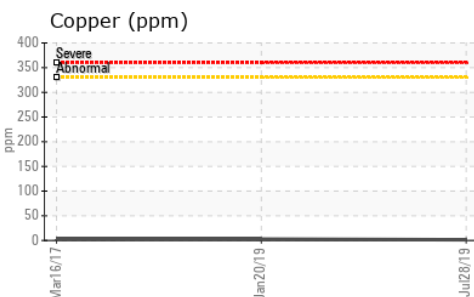
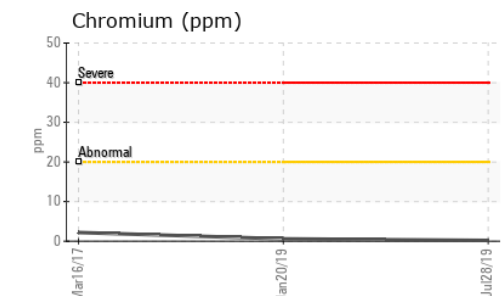
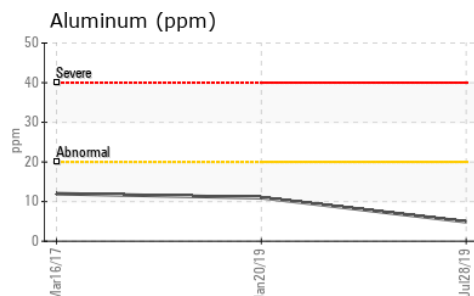
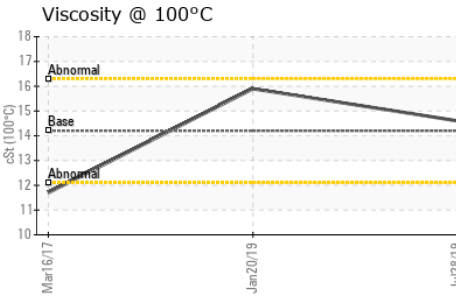
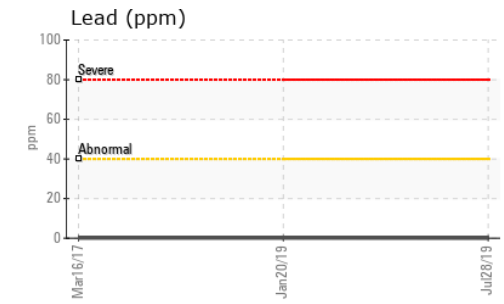
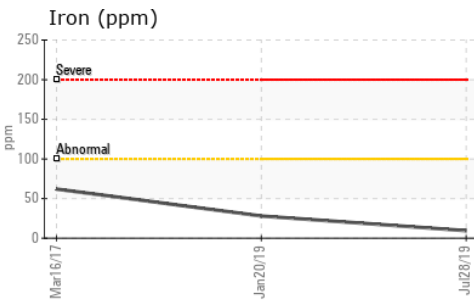
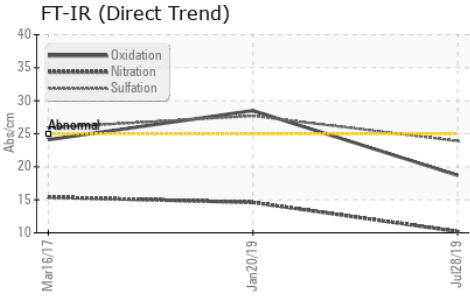


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.7</b>	28.5	24.1

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	<b>14.6</b>	15.9	11.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP **Received** : 29 Jul 2019  
**Lab Number** : 02299557 **Tested** : 29 Jul 2019  
**Unique Number** : 4902830 **Diagnosed** : 29 Jul 2019 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**MARCEL TIMMONS**  
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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.