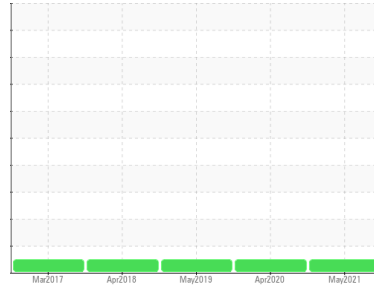


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**ALLISON 4024**  
Component  
**Transmission (Auto)**  
Fluid  
**SHELL SPIRAX S6 ATF (22 LTR)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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 fluid.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0041413</b>	PC0026560	PC428975
Sample Date	Client Info			<b>20 May 2021</b>	16 Apr 2020	16 May 2019
Machine Age	hrs	Client Info		<b>8346</b>	7942	7535
Oil Age	hrs	Client Info		<b>404</b>	7942	7535
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

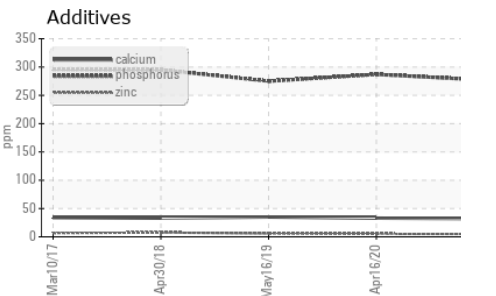
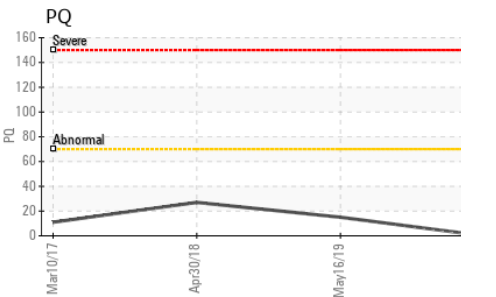
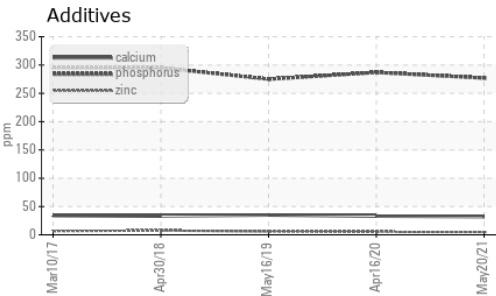
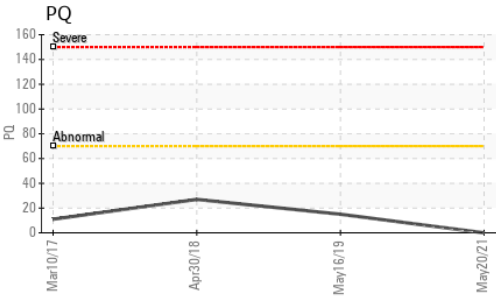
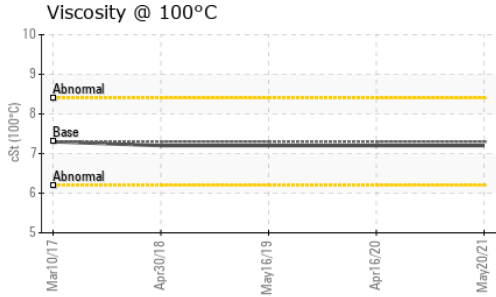
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>70	<b>0</b>	---	15
Iron	ppm	ASTM D5185(m)	>235	<b>28</b>	45	37
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>90	<b>5</b>	9	8
Lead	ppm	ASTM D5185(m)	>45	<b>6</b>	11	9
Copper	ppm	ASTM D5185(m)	>50	<b>10</b>	18	16
Tin	ppm	ASTM D5185(m)	>10	<b>1</b>	2	2
Antimony	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
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>118</b>	119	122
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	<1	<1
Calcium	ppm	ASTM D5185(m)		<b>32</b>	33	35
Phosphorus	ppm	ASTM D5185(m)		<b>277</b>	287	275
Zinc	ppm	ASTM D5185(m)		<b>5</b>	5	6
Sulfur	ppm	ASTM D5185(m)		<b>356</b>	470	473
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	7	6
Sodium	ppm	ASTM D5185(m)		<b>5</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.10</b>	1.29	1.12

# OIL ANALYSIS REPORT

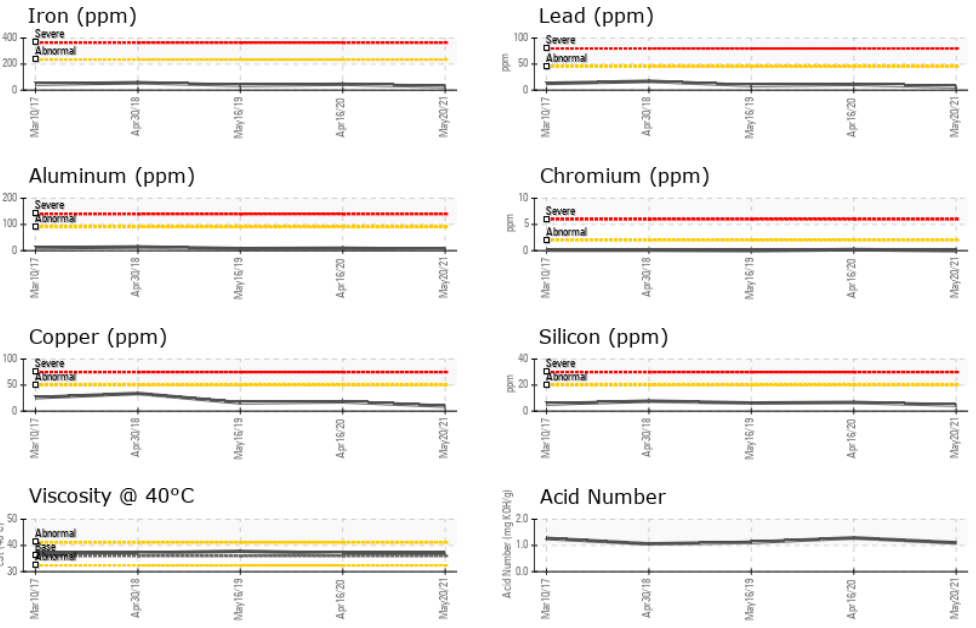


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	36	37.0	37.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	7.2	7.2
Viscosity Index (VI)	Scale	ASTM D2270*	181	162	157

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	
Bottom				no image	

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0041413 **Received** : 25 May 2021  
**Lab Number** : 02423262 **Diagnosed** : 26 May 2021  
**Unique Number** : 5226762 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

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.

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