OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id
ROADTECH 2500E 2611300
Component
Middle Gearbox
Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as (GENERIC) GEAR OIL ISO 220, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 80W90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0072969**	---	---
Sample Date		Client Info		**08 Feb 2024**	---	---
Machine Age	hrs	Client Info		**6533**	---	---
Oil Age	hrs	Client Info		**500**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	---	---

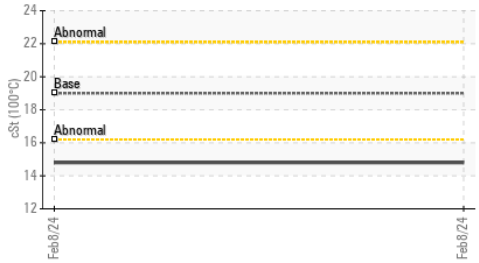
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**38**	---	---
Iron	ppm	ASTM D5185(m)	>200	**226**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**3**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**2**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**2**	---	---
Lead	ppm	ASTM D5185(m)	>50	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>200	**1**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
Antimony	ppm	ASTM D5185(m)	>5	**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	**210**	---	---
Barium	ppm	ASTM D5185(m)	15	**1**	---	---
Molybdenum	ppm	ASTM D5185(m)	15	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**3**	---	---
Magnesium	ppm	ASTM D5185(m)	50	**4**	---	---
Calcium	ppm	ASTM D5185(m)	50	**11**	---	---
Phosphorus	ppm	ASTM D5185(m)	350	**962**	---	---
Zinc	ppm	ASTM D5185(m)	100	**12**	---	---
Sulfur	ppm	ASTM D5185(m)	12500	**17818**	---	---
Lithium	ppm	ASTM D5185(m)		**1**	---	---

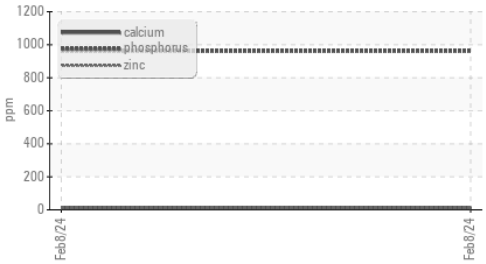
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**12**	---	---
Sodium	ppm	ASTM D5185(m)		**3**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**2**	---	---

OIL ANALYSIS REPORT

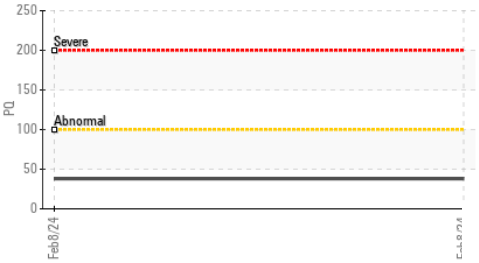
Viscosity @ 100°C



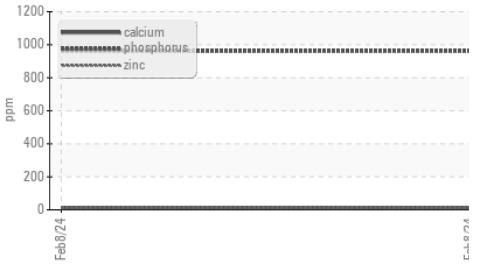
Additives



PQ

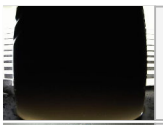


Additives



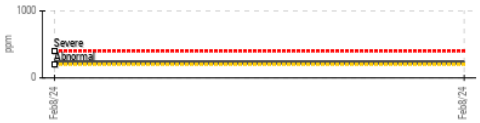
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**VLITE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**VLITE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **141**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	▲ **14.8**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	**104**	---	---

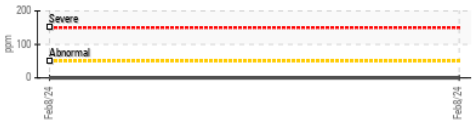
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

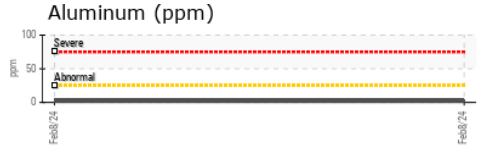
Iron (ppm)



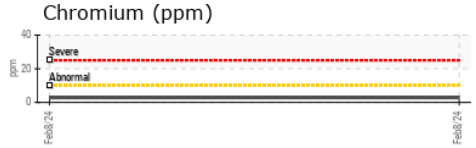
Lead (ppm)



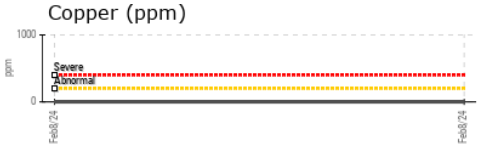
Aluminum (ppm)



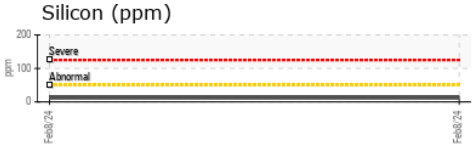
Chromium (ppm)



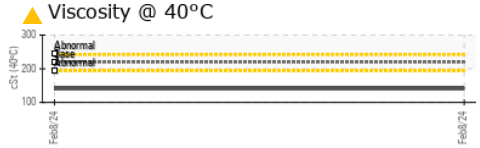
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



PQ

CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0072969
Lab Number : 02614739
Unique Number : 5723834
Test Package : MOB 1 (Additional Tests: KV100, PQ, VI)
Received : 09 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Kevin Marson

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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