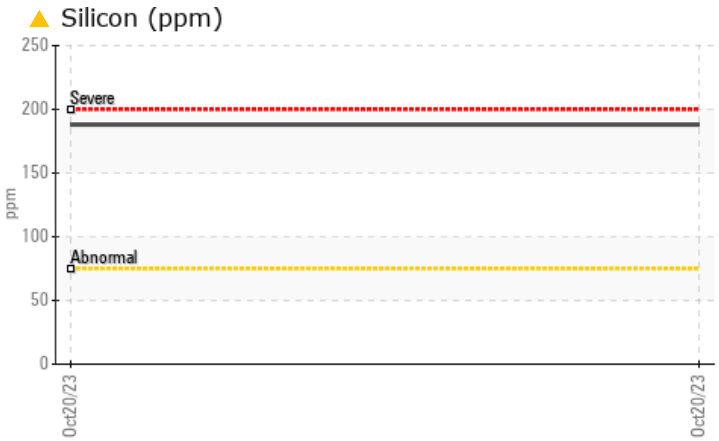
PROBLEM SUMMARY

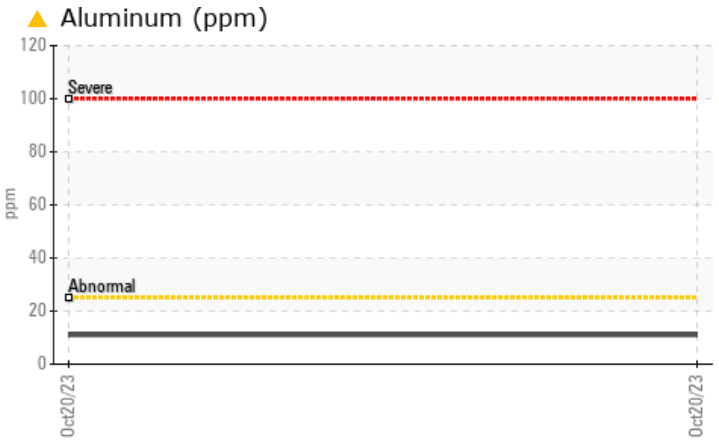
Sample Rating Trend

DIRT

Machine Id
KENWORTH 3090
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- QTS)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ **11**	---	---
Silicon	ppm	ASTM D5185m	>75	▲ **188**	---	---

Customer Id: LTILYN
Sample No.: WCMFB85541
Lab Number: 05996024
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id
KENWORTH 3090
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- QTS)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		**WCMFB85541**	---	---
Sample Date		Client Info		**20 Oct 2023**	---	---
Machine Age	mls	Client Info		**0**	---	---
Oil Age	mls	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**242**	---	---
Chromium	ppm	ASTM D5185m	>10	**2**	---	---
Nickel	ppm	ASTM D5185m	>10	**<1**	---	---
Titanium	ppm	ASTM D5185m		**2**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ **11**	---	---
Lead	ppm	ASTM D5185m	>25	**2**	---	---
Copper	ppm	ASTM D5185m	>100	**25**	---	---
Tin	ppm	ASTM D5185m	>10	**2**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**194**	---	---
Barium	ppm	ASTM D5185m	200	**<1**	---	---
Molybdenum	ppm	ASTM D5185m	12	**<1**	---	---
Manganese	ppm	ASTM D5185m		**4**	---	---
Magnesium	ppm	ASTM D5185m	12	**8**	---	---
Calcium	ppm	ASTM D5185m	150	**64**	---	---
Phosphorus	ppm	ASTM D5185m	1650	**1410**	---	---
Zinc	ppm	ASTM D5185m	125	**20**	---	---
Sulfur	ppm	ASTM D5185m	22500	**24898**	---	---

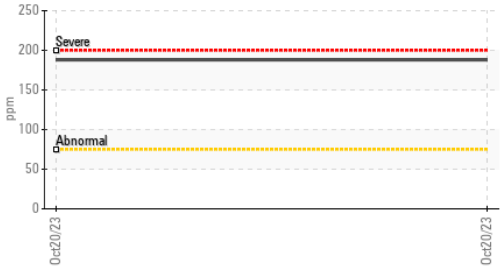
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **188**	---	---
Sodium	ppm	ASTM D5185m		**<1**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**LIGHT**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

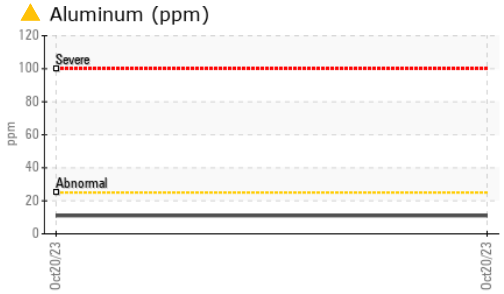
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**93.7**	---	---

OIL ANALYSIS REPORT

Silicon (ppm)



Aluminum (ppm)

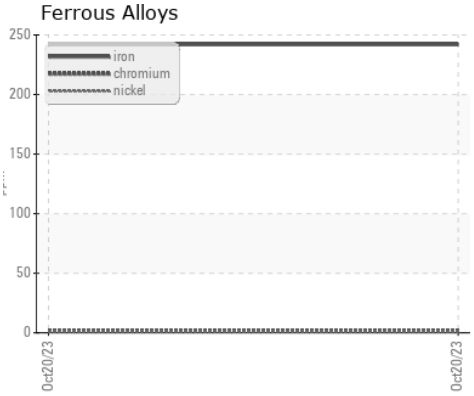


Viscosity @ 40°C

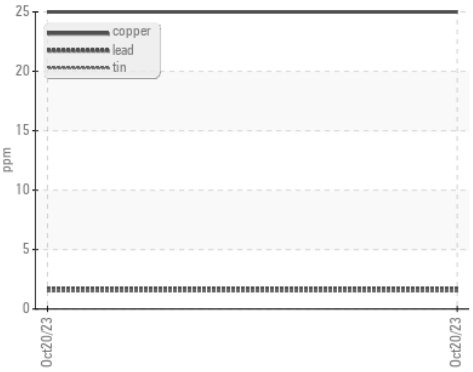
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

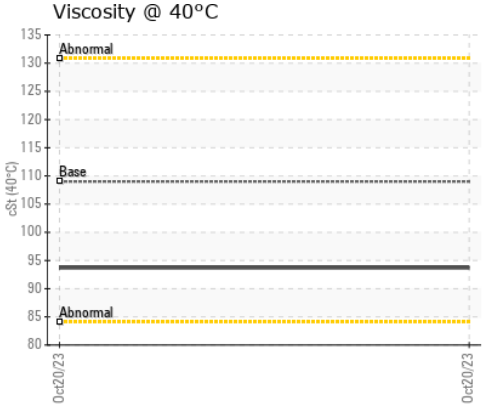
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCMFB85541
Lab Number : 05996024
Unique Number : 10724384
Test Package : FLEET

Received : 01 Nov 2023
Diagnosed : 03 Nov 2023
Diagnostician : Don Baldridge

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)

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