



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH KEVIN
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

WEAR

Chromium, copper, iron and tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

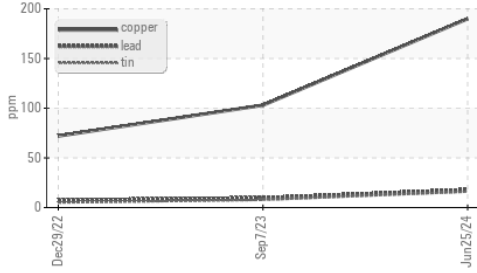
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0836422	WC0836419	WC0700704
Sample Date		Client Info		25 Jun 2024	07 Sep 2023	29 Dec 2022
Machine Age	kms	Client Info		2231129	593763	551130
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

PQ		ASTM D8184*		374	339	402
Iron	ppm	ASTM D5185(m)	>500	▲ 1412	▲ 886	▲ 981
Chromium	ppm	ASTM D5185(m)	>10	▲ 13	8	▲ 11
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	2
Titanium	ppm	ASTM D5185(m)		6	▲ 17	1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	6	7	7
Lead	ppm	ASTM D5185(m)	>25	18	10	7
Copper	ppm	ASTM D5185(m)	>100	▲ 190	▲ 103	72
Tin	ppm	ASTM D5185(m)	>10	▲ 16	8	5
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
White Metal	scalar	Visual*	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

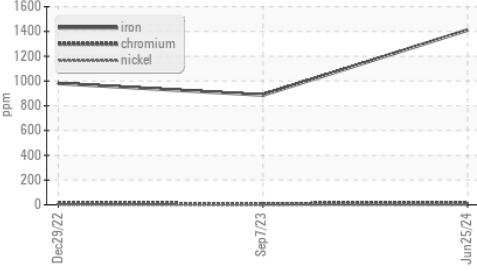
Silicon	ppm	ASTM D5185(m)	>75	54	55	57
Potassium	ppm	ASTM D5185(m)	>20	1	1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		10	10	29
Boron	ppm	ASTM D5185(m)	400	128	144	28
Barium	ppm	ASTM D5185(m)	200	3	3	4
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	1
Manganese	ppm	ASTM D5185(m)		17	10	12
Magnesium	ppm	ASTM D5185(m)	12	21	23	7
Calcium	ppm	ASTM D5185(m)	150	61	74	58
Phosphorus	ppm	ASTM D5185(m)	1650	1173	1308	536
Zinc	ppm	ASTM D5185(m)	125	40	44	51
Sulfur	ppm	ASTM D5185(m)	22500	19239	20042	16175
Visc @ 40°C	cSt	ASTM D7279(m)	109	94.1	102	101

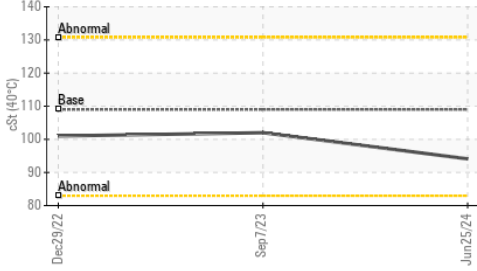
▲ Non-ferrous Metals



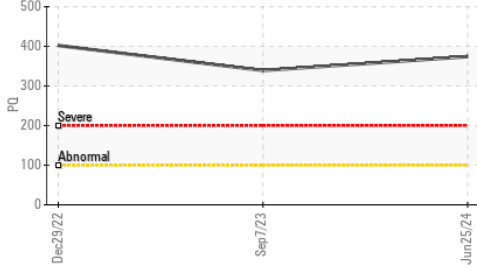
▲ Ferrous Alloys



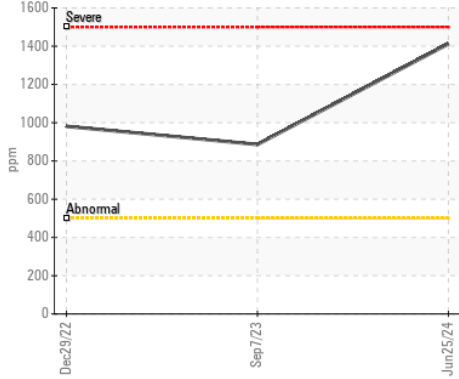
Viscosity @ 40°C



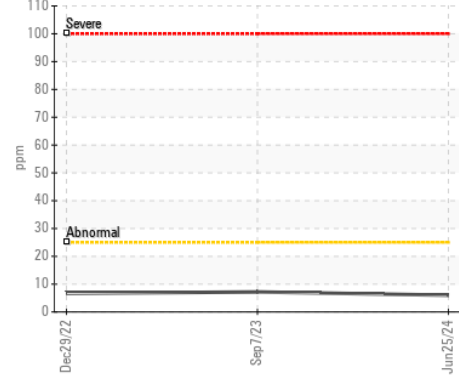
PQ



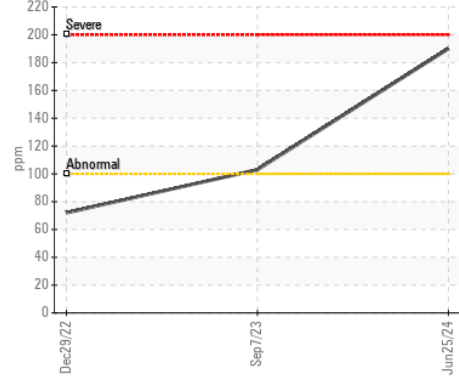
▲ Iron (ppm)



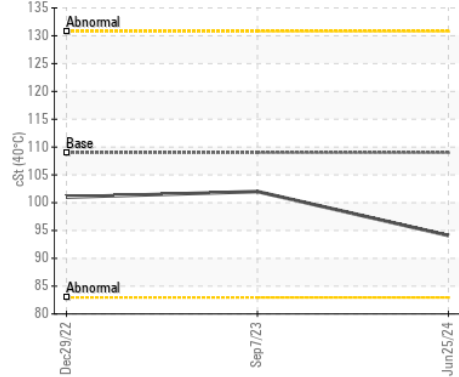
Aluminum (ppm)



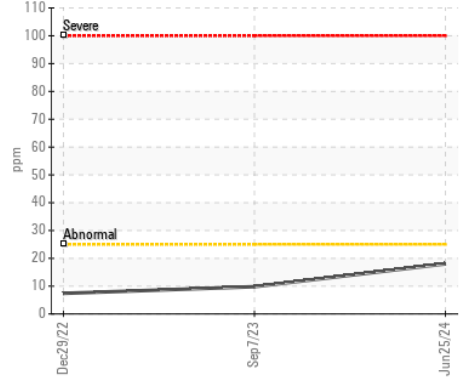
▲ Copper (ppm)



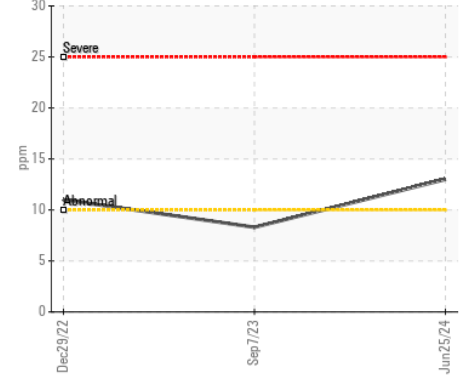
Viscosity @ 40°C



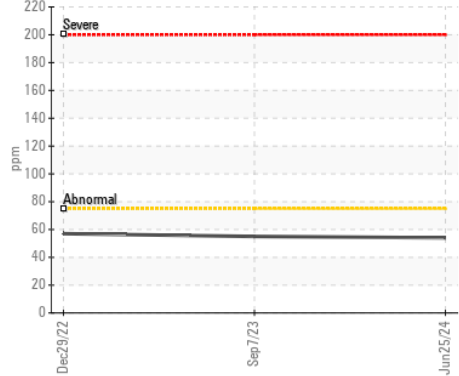
Lead (ppm)



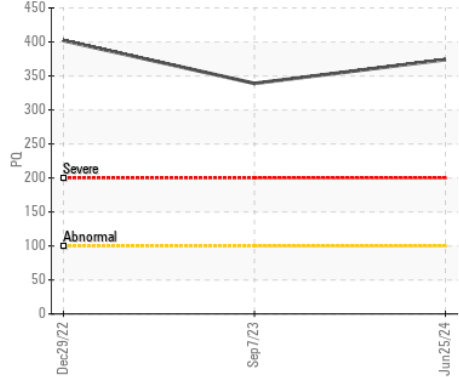
▲ Chromium (ppm)



Silicon (ppm)



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0836422
Lab Number : 02644937
Unique Number : 5802476
Test Package : MOB 1 (Additional Tests: PQ)

Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 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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