



Area
[W64409]
 Machine Id
KX80 (S/N 25504)
 Component
Right Final Drive
 Fluid
SAE 80W90 (2 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W64409)

WEAR

Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

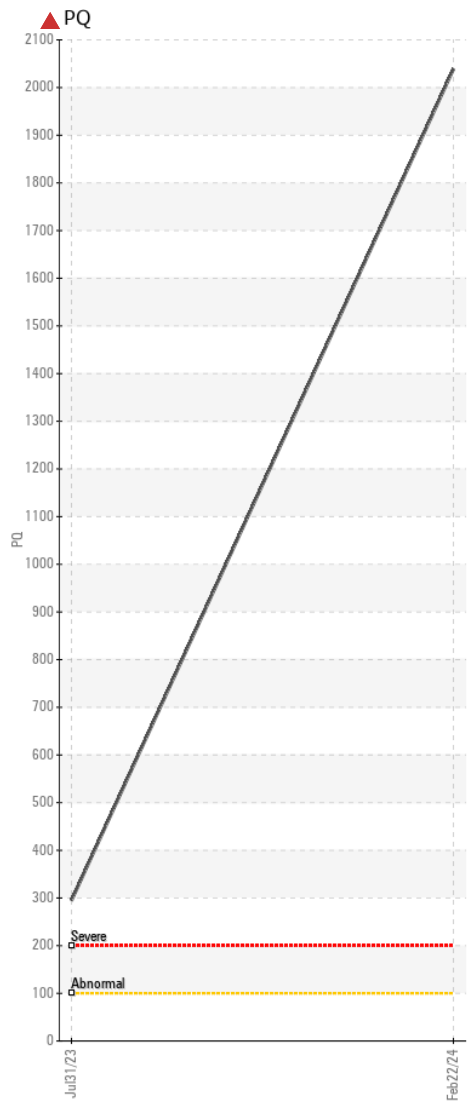
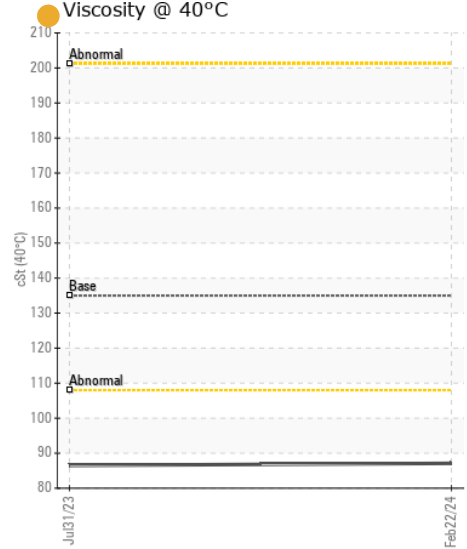
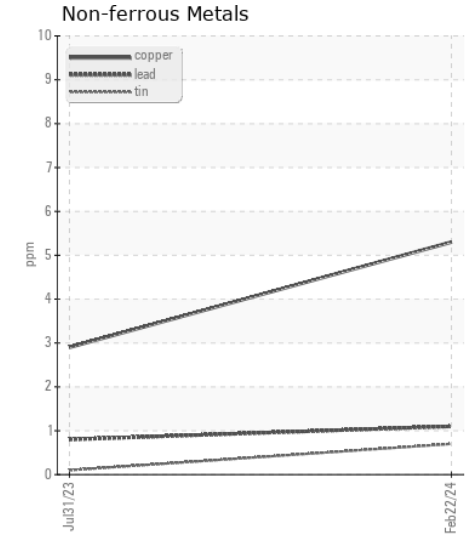
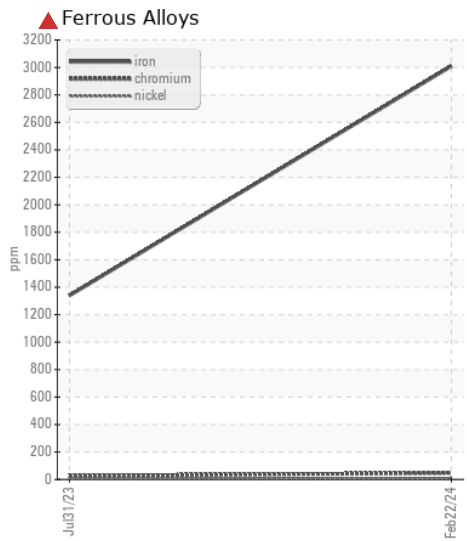
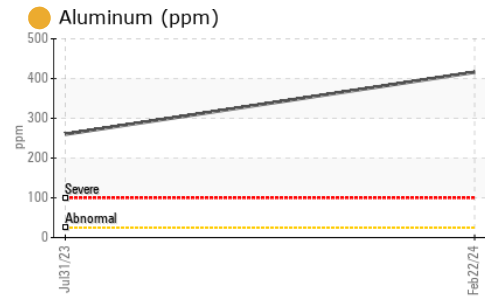
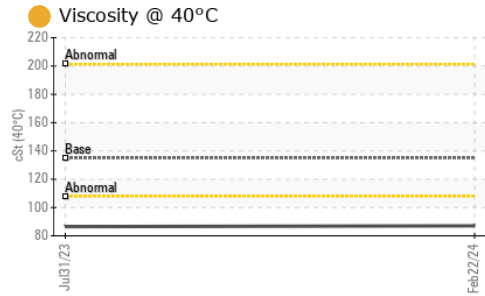
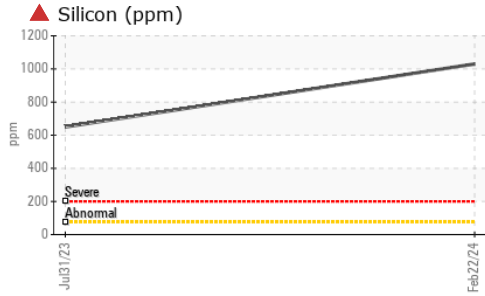
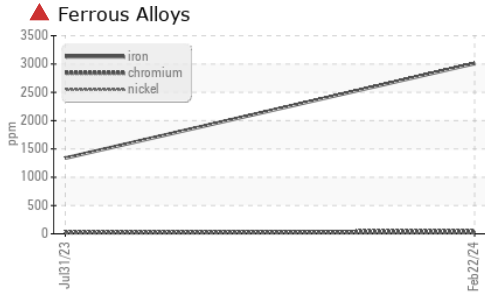
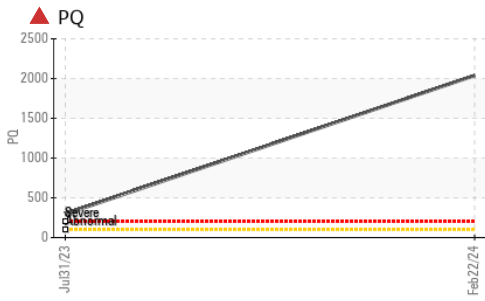
CONTAMINATION

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

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204262	JR0179032	---
Sample Date		Client Info		22 Feb 2024	31 Jul 2023	---
Machine Age	hrs	Client Info		6960	6496	---
Oil Age	hrs	Client Info		6960	6496	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184		▲ 2039	295	---
Iron	ppm	ASTM D5185m	>500	▲ 3009	▲ 1338	---
Chromium	ppm	ASTM D5185m	>10	▲ 47	▲ 27	---
Nickel	ppm	ASTM D5185m	>10	▲ 10	8	---
Titanium	ppm	ASTM D5185m		22	15	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 416	● 260	---
Lead	ppm	ASTM D5185m	>25	1	<1	---
Copper	ppm	ASTM D5185m	>50	5	3	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 1030	▲ 650	---
Potassium	ppm	ASTM D5185m	>20	87	57	---
Water		WC Method	>0.2	NEG	NEG	---
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	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>50	13	10	---
Boron	ppm	ASTM D5185m		3	9	---
Barium	ppm	ASTM D5185m		21	20	---
Molybdenum	ppm	ASTM D5185m		2	2	---
Manganese	ppm	ASTM D5185m		36	20	---
Magnesium	ppm	ASTM D5185m		42	34	---
Calcium	ppm	ASTM D5185m		4032	4055	---
Phosphorus	ppm	ASTM D5185m		879	830	---
Zinc	ppm	ASTM D5185m		1120	1093	---
Sulfur	ppm	ASTM D5185m		6184	7643	---
Visc @ 40°C	cSt	ASTM D445	135	● 87.1	● 86.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204262 **Received** : 27 Feb 2024
Lab Number : 06101953 **Tested** : 28 Feb 2024
Unique Number : 10900183 **Diagnosed** : 29 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)