



WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[16W15975]
 Machine Id
CASE 721F C327175 (S/N NCF216455)
 Component
Front Axle
 Fluid
CASE AKCELA NEXPLORE 10W30 (37 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 16W15975)

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated. Component wear metal level(s) high for break in.

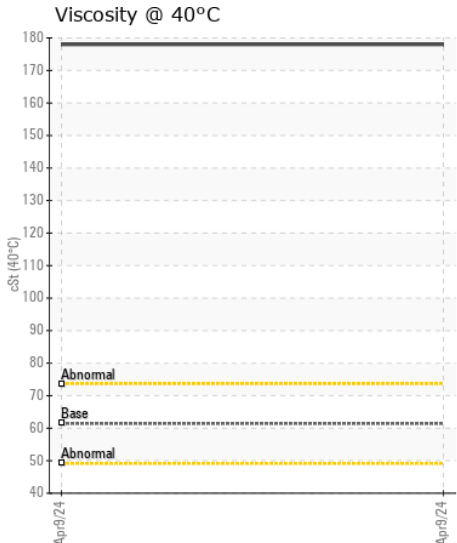
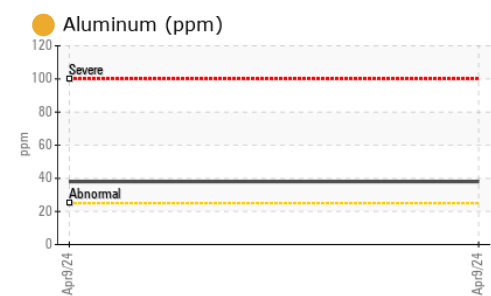
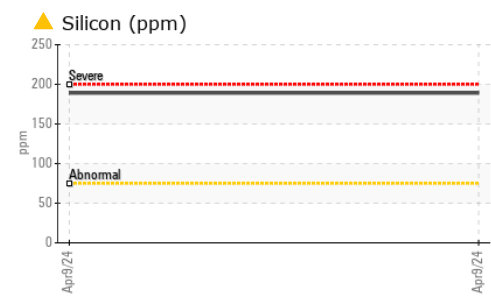
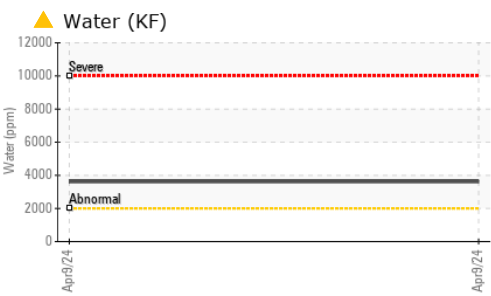
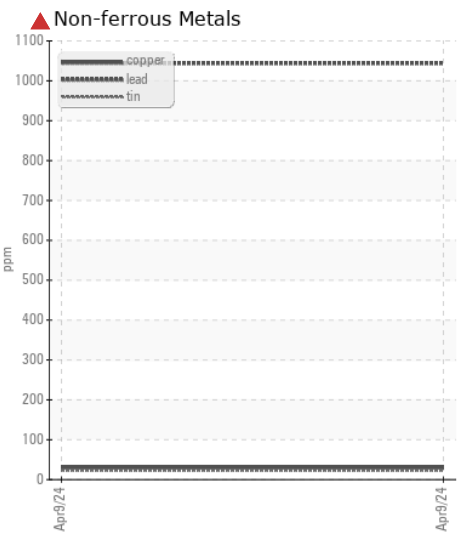
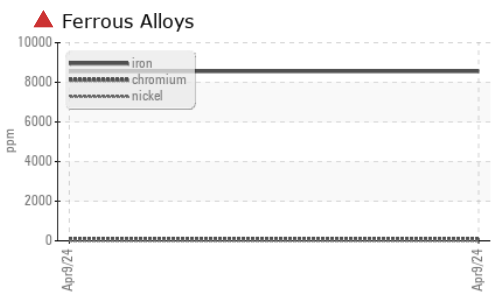
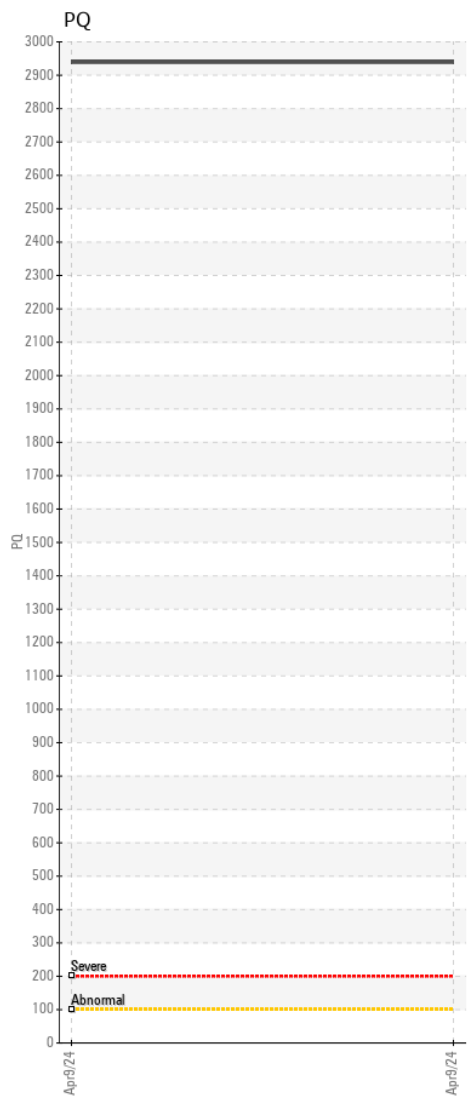
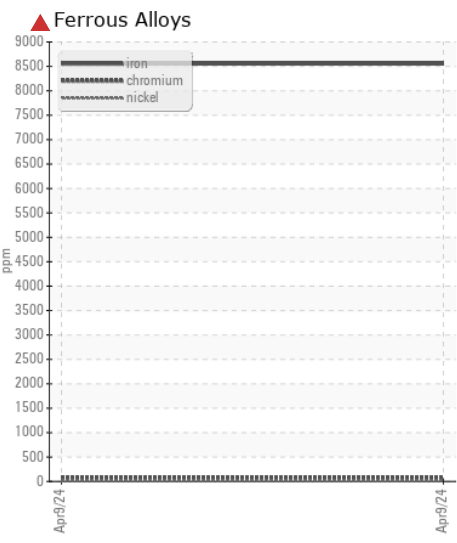
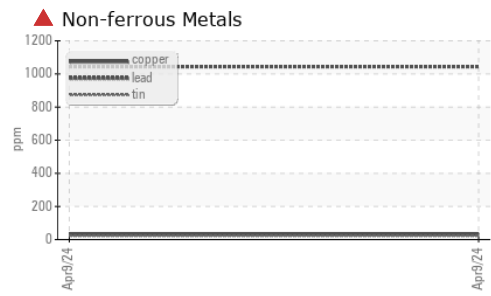
CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		JR0206921	---	---
Sample Date		Client Info		09 Apr 2024	---	---
Machine Age	hrs	Client Info		4465	---	---
Oil Age	hrs	Client Info		4465	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		2939	---	---
Iron	ppm	ASTM D5185m	>500	▲ 8553	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 73	---	---
Nickel	ppm	ASTM D5185m	>10	6	---	---
Titanium	ppm	ASTM D5185m		4	---	---
Silver	ppm	ASTM D5185m		3	---	---
Aluminum	ppm	ASTM D5185m	>25	● 38	---	---
Lead	ppm	ASTM D5185m	>25	▲ 1044	---	---
Copper	ppm	ASTM D5185m	>50	30	---	---
Tin	ppm	ASTM D5185m	>10	▲ 23	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 189	---	---
Potassium	ppm	ASTM D5185m	>20	113	---	---
Water	%	ASTM D6304	>0.2	▲ 0.362	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3620	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
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	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		37	---	---
Boron	ppm	ASTM D5185m		15	---	---
Barium	ppm	ASTM D5185m		4	---	---
Molybdenum	ppm	ASTM D5185m		228	---	---
Manganese	ppm	ASTM D5185m		159	---	---
Magnesium	ppm	ASTM D5185m		77	---	---
Calcium	ppm	ASTM D5185m		2720	---	---
Phosphorus	ppm	ASTM D5185m		973	---	---
Zinc	ppm	ASTM D5185m		1843	---	---
Sulfur	ppm	ASTM D5185m		5132	---	---
Visc @ 40°C	cSt	ASTM D445	61.4	178	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206921 **Received** : 11 Apr 2024
Lab Number : 06146167 **Tested** : 15 Apr 2024
Unique Number : 10976245 **Diagnosed** : 15 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 T:
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Certificate L2367
 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)