CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
2H28
Machine Id
FORD F-250 PTK9884
Component
Transmission (Auto)
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

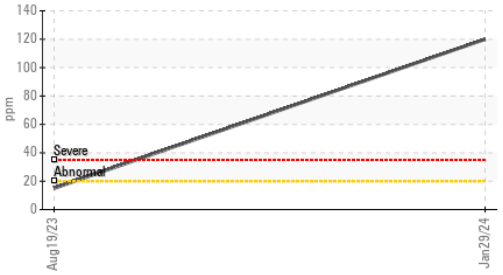
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Free water present. There is a light concentration of water present in the fluid. Moderate concentration of visible dirt/debris present in the fluid. There is a moderate amount of visible silt present in the sample.

FLUID CONDITION

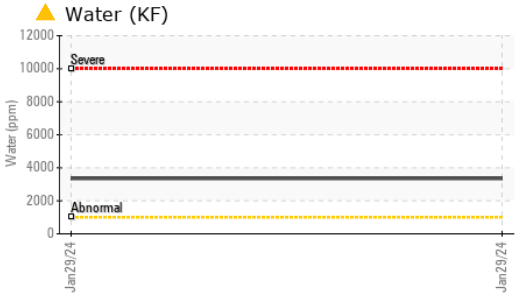
The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ARI0007588	ARI0006511	---
Sample Date		Client Info		29 Jan 2024	19 Aug 2023	---
Machine Age	mls	Client Info		186977	179400	---
Oil Age	mls	Client Info		7563	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>160	▲ 207	▲ 170	---
Chromium	ppm	ASTM D5185m	>5	0	<1	---
Nickel	ppm	ASTM D5185m	>5	7	8	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>50	▲ 110	47	---
Lead	ppm	ASTM D5185m	>50	<1	2	---
Copper	ppm	ASTM D5185m	>225	63	61	---
Tin	ppm	ASTM D5185m	>10	6	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	⬢ 120	15	---
Potassium	ppm	ASTM D5185m	>20	90	0	---
Water	%	ASTM D6304	>0.1	▲ 0.335	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 3350	---	---
Glycol	%	*ASTM D2982		0.0	---	---
Silt	scalar	*Visual	NONE	▲ MODER	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		16	9	---
Boron	ppm	ASTM D5185m		56	44	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		11	10	---
Manganese	ppm	ASTM D5185m		20	52	---
Magnesium	ppm	ASTM D5185m		22	2	---
Calcium	ppm	ASTM D5185m		128	111	---
Phosphorus	ppm	ASTM D5185m		171	139	---
Zinc	ppm	ASTM D5185m		27	4	---
Sulfur	ppm	ASTM D5185m		1051	1056	---
Visc @ 40°C	cSt	ASTM D445		25.8	25.5	---

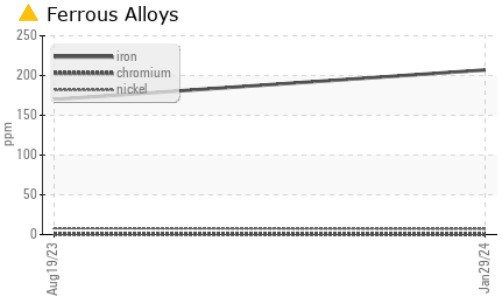
Silicon (ppm)



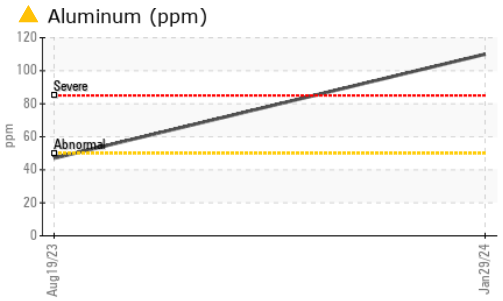
Water (KF)



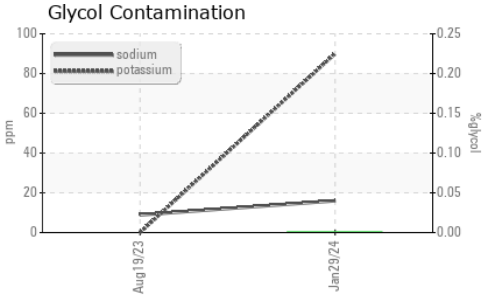
Ferrous Alloys



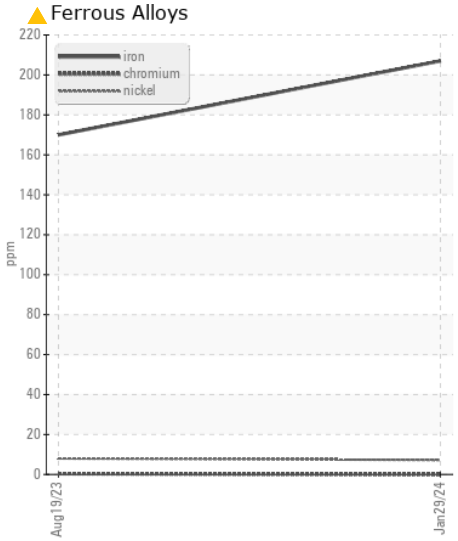
Aluminum (ppm)



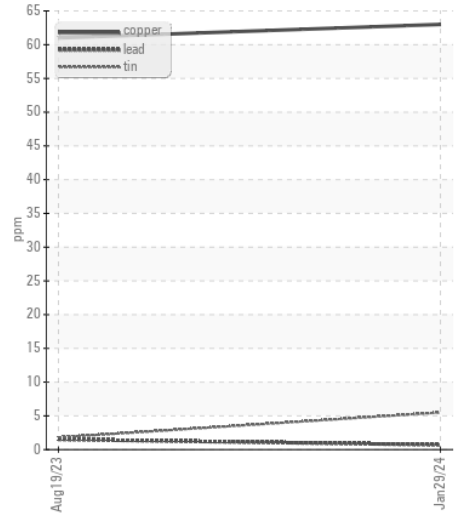
Glycol Contamination



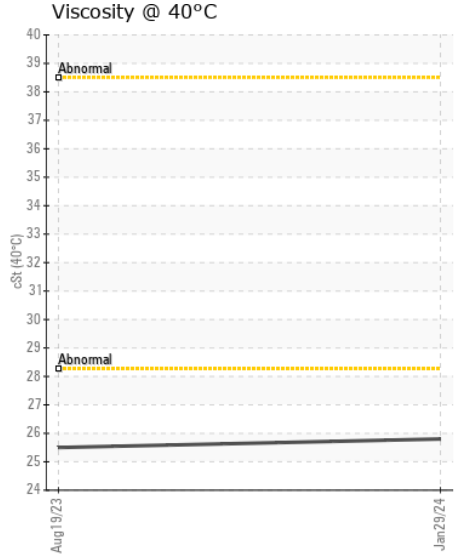
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ARI0007588 **Recieved** : 30 Jan 2024
Lab Number : 06075229 **Diagnosed** : 02 Feb 2024
Unique Number : 10857320 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, KF)

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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