



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen [90841]
 Machine Id
PETERBILT 389 1XPXD40X0KD604035
 Component
Transmission (Manual)
 Fluid
JOHN DEERE HD SynTran (--- GAL)

RECOMMENDATION

We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041128	LEC0045967	LEC0043621
Sample Date		Client Info		12 Jan 2024	17 Nov 2023	29 Sep 2023
Machine Age	mls	Client Info		533203	518295	502301
Oil Age	mls	Client Info		90841	75933	59939
Filter Age	mls	Client Info		90841	75933	59939
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

The iron level is severe. Gear wear is indicated.

PQ		ASTM D8184	>95	266	167	111
Iron	ppm	ASTM D5185m	>200	714	477	234
Chromium	ppm	ASTM D5185m	>5	4	3	1
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>225	53	37	27
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

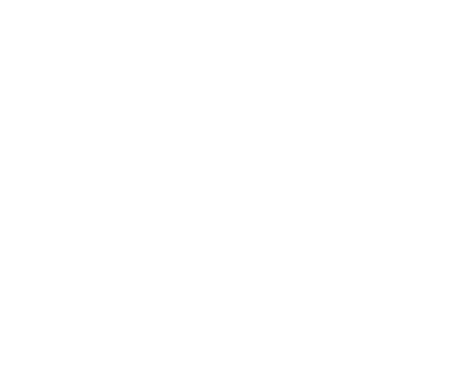
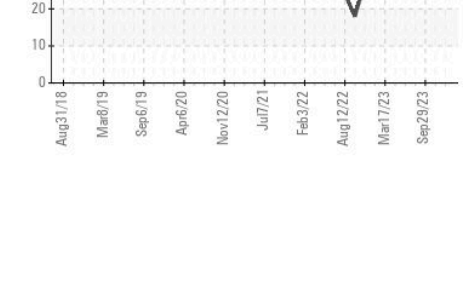
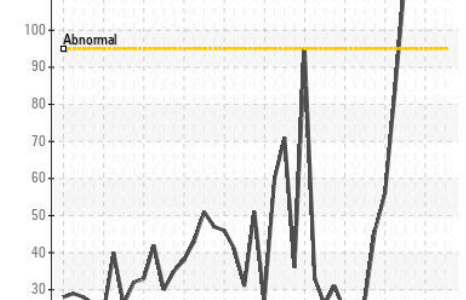
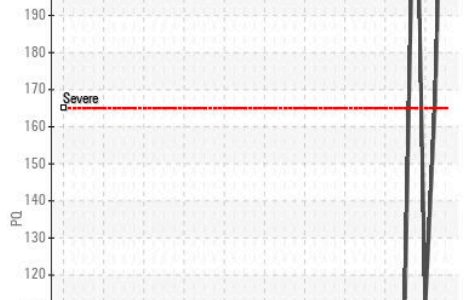
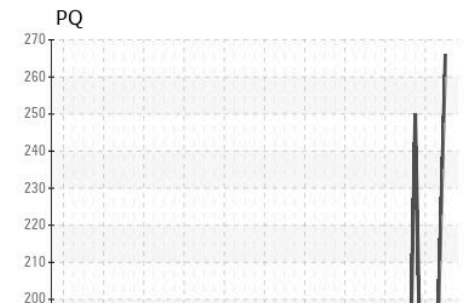
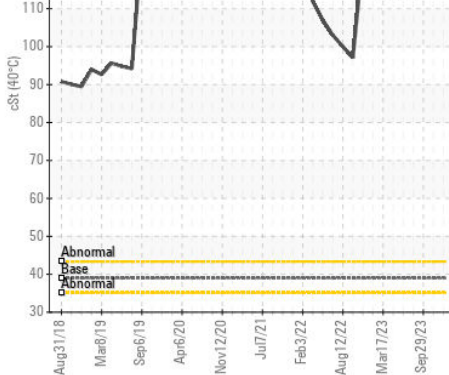
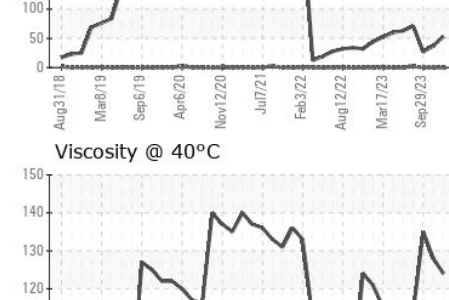
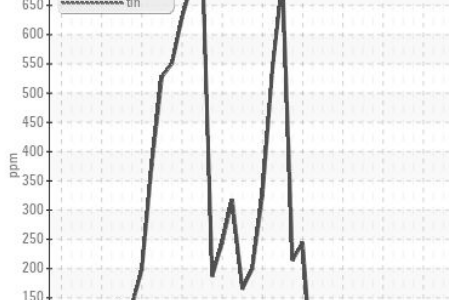
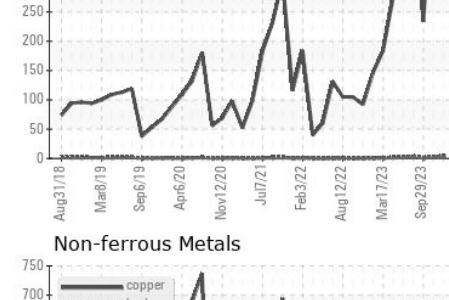
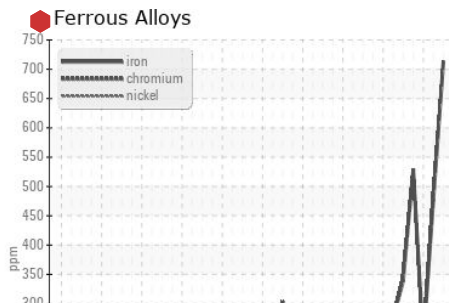
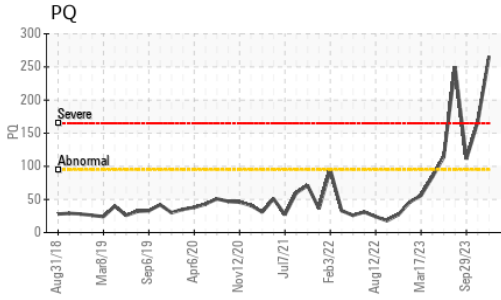
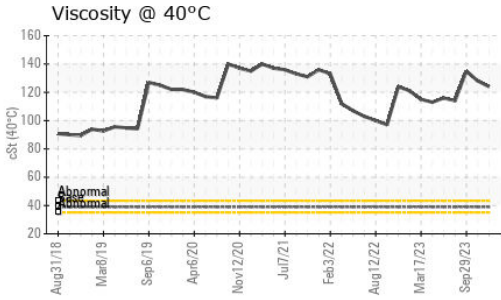
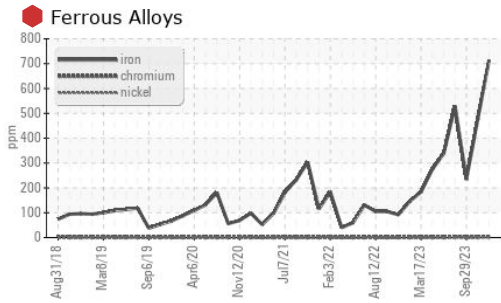
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	6	6	5
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	3	1
Boron	ppm	ASTM D5185m	168	6	15	16
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		9	6	3
Magnesium	ppm	ASTM D5185m		176	164	164
Calcium	ppm	ASTM D5185m	33	864	852	911
Phosphorus	ppm	ASTM D5185m	330	1703	1794	1680
Zinc	ppm	ASTM D5185m	0	1180	1154	1246
Sulfur	ppm	ASTM D5185m	980	2899	3014	3165
Visc @ 40°C	cSt	ASTM D445	39	124	128	135



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041128 **Received** : 16 Jan 2024
Lab Number : 06061412 **Diagnosed** : 17 Jan 2024
Unique Number : 10832794 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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