LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen [146992]
Machine Id
JOHN DEERE 544K 1DW544KZCDE654148
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The lead level is abnormal. All other component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the component.

FLUID CONDITION

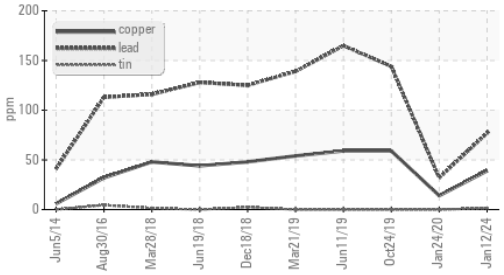
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045890	LEC0009566	LEC0005307
Sample Date		Client Info		12 Jan 2024	24 Jan 2020	24 Oct 2019
Machine Age	hrs	Client Info		23079	14647	14069
Oil Age	hrs	Client Info		0	11966	11388
Filter Age	hrs	Client Info		0	11966	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184		39	25	15
Iron	ppm	ASTM D5185m	>500	210	56	204
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	2	<1	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	3
Lead	ppm	ASTM D5185m	>25	▲ 77	32	▲ 144
Copper	ppm	ASTM D5185m	>100	39	14	59
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	11	9	18
Potassium	ppm	ASTM D5185m	>20	19	4	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	3	7
Boron	ppm	ASTM D5185m	6	25	2	4
Barium	ppm	ASTM D5185m	0	4	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	<1	2
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m	145	63	89	87
Calcium	ppm	ASTM D5185m	3570	2694	3355	3244
Phosphorus	ppm	ASTM D5185m	1290	988	960	1021
Zinc	ppm	ASTM D5185m	1640	1107	1182	1121
Sulfur	ppm	ASTM D5185m		4697	2854	3513
Visc @ 40°C	cSt	ASTM D445	57.0	45.5	48.7	46.7

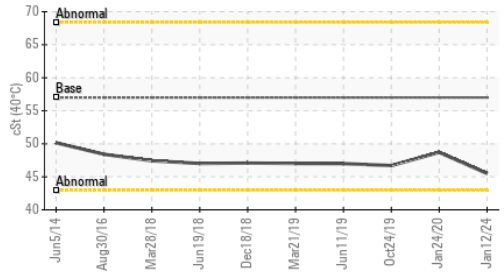
Report Id: LESMAROH [WUSCAR] 06064591 (Generated: 01/21/2024 13:14:06) Rev: 1

Submitted By: STORE 1 - COWEN - JENNIFER ARMENTROUT

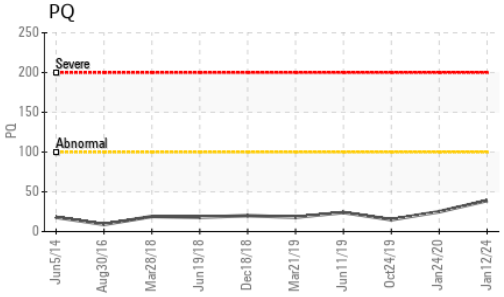
Non-ferrous Metals



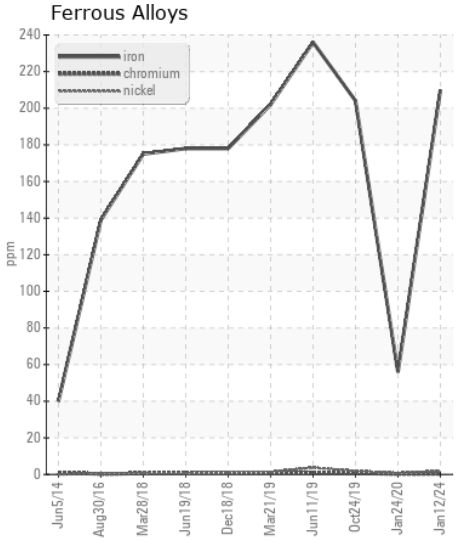
Viscosity @ 40°C



PQ



Ferrous Alloys



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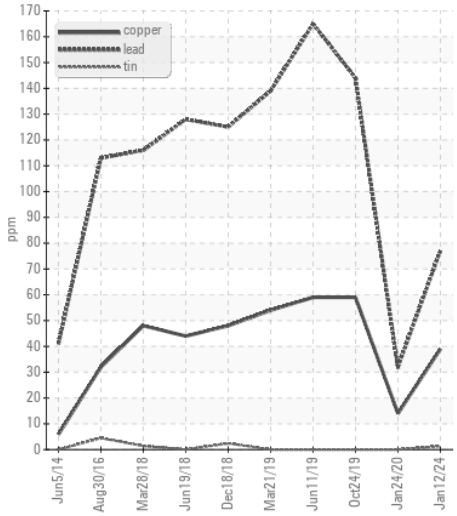

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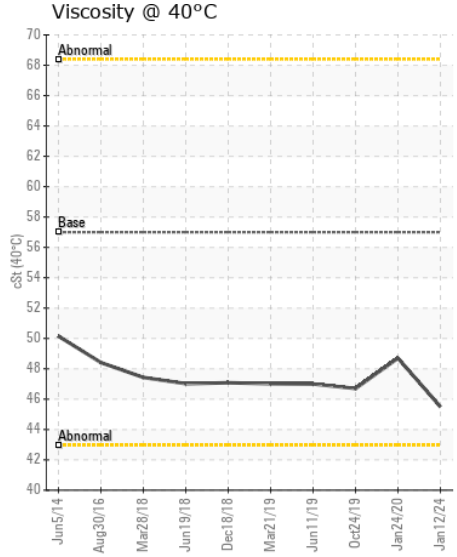
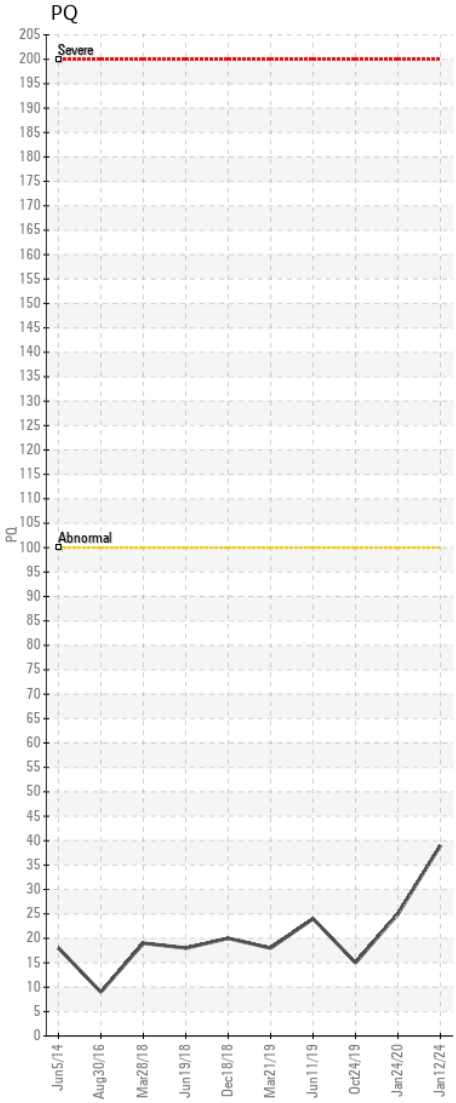


PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045890 **Recieved** : 18 Jan 2024
Lab Number : 06064591 **Diagnosed** : 21 Jan 2024
Unique Number : 10835973 **Diagnostician** : Don Baldridge
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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