



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K LDR009
Component
Rear Differential
Fluid
ESSO HYDRAUL 56 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0892475	WC0835151	WC0820180
Sample Date		Client Info		08 Jan 2024	20 Aug 2023	10 Jun 2023
Machine Age	hrs	Client Info		111363	10461	9800
Oil Age	hrs	Client Info		0	0	1000
Filter Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>420	27	20	87
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	1	<1	1
Lead	ppm	ASTM D5185(m)	>95	1	3	15
Copper	ppm	ASTM D5185(m)	>170	26	14	52
Tin	ppm	ASTM D5185(m)	>15	<1	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

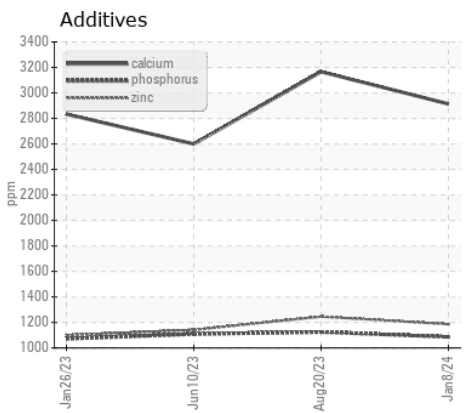
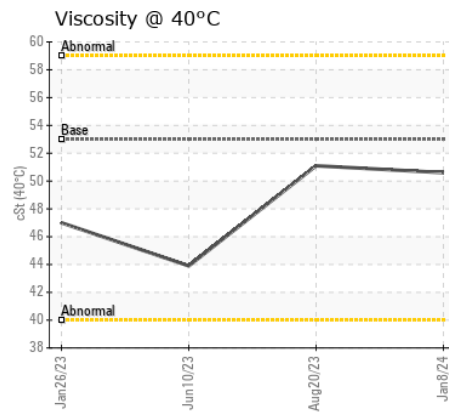
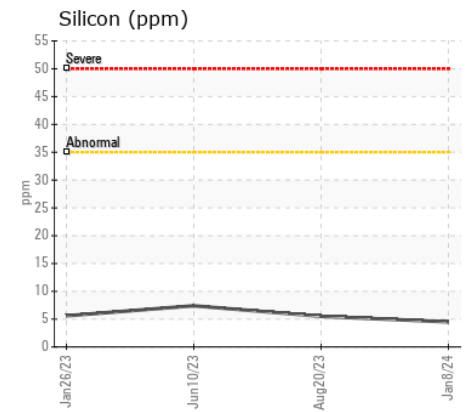
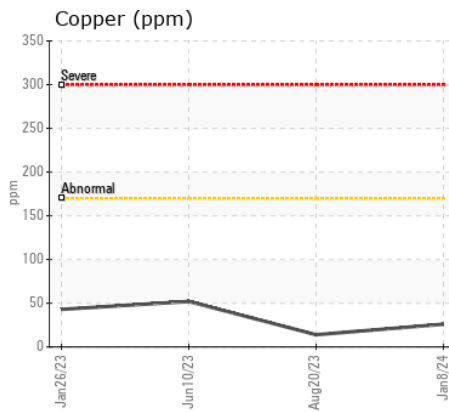
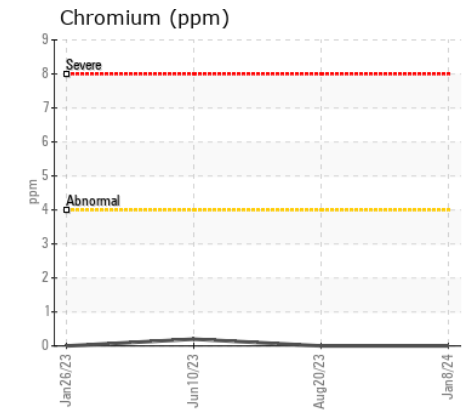
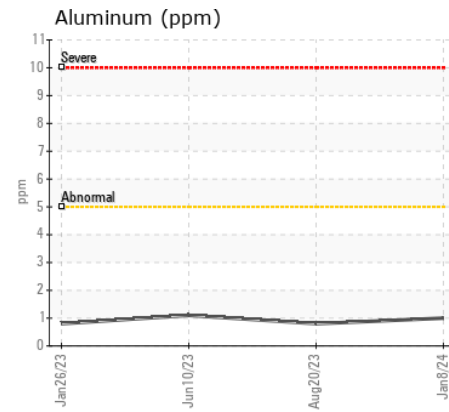
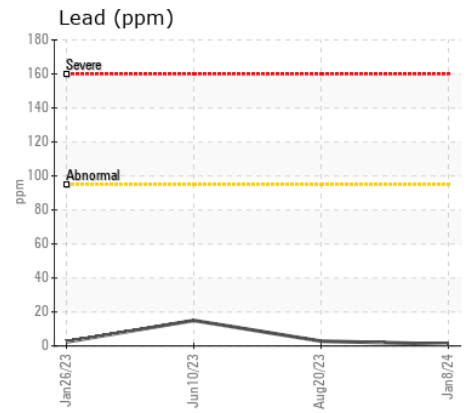
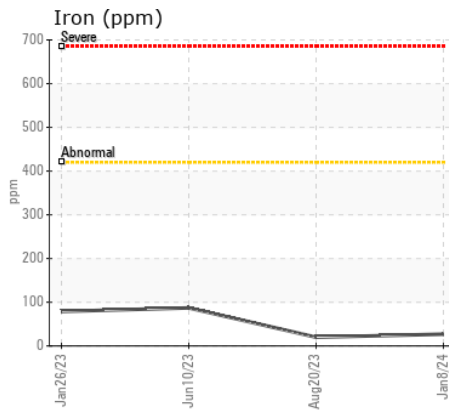
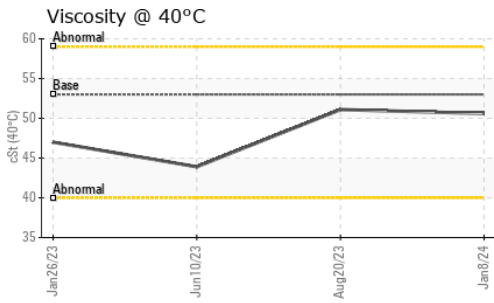
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	4	6	7
Potassium	ppm	ASTM D5185(m)	>20	9	3	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		8	4	10
Boron	ppm	ASTM D5185(m)		47	44	20
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	1	2
Manganese	ppm	ASTM D5185(m)		0	<1	2
Magnesium	ppm	ASTM D5185(m)		42	54	69
Calcium	ppm	ASTM D5185(m)		2914	3166	2600
Phosphorus	ppm	ASTM D5185(m)		1086	1125	1109
Zinc	ppm	ASTM D5185(m)		1186	1246	1141
Sulfur	ppm	ASTM D5185(m)		5240	4887	3388
Visc @ 40°C	cSt	ASTM D7279(m)	53	50.6	51.1	43.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892475 **Received** : 11 Jan 2024
Lab Number : 02608262 **Diagnosed** : 11 Jan 2024
Unique Number : 5709348 **Diagnostician** : Wes Davis
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.