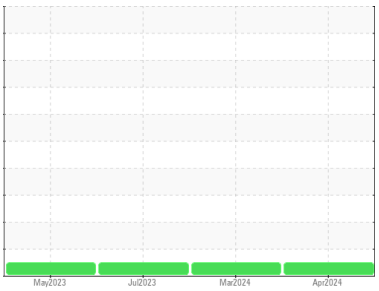
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
JOHN DEERE 624L 624L UNIT 9
Component
Transmission (Manual)
Fluid
TDH FLUID SAE 75W80 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0003822**	PE0003834	PE0002475
Sample Date		Client Info		**05 Apr 2024**	07 Mar 2024	28 Jul 2023
Machine Age	hrs	Client Info		**3756**	3473	1380
Oil Age	hrs	Client Info		**3473**	1380	1380
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>95	**16**	16	13
Iron	ppm	ASTM D5185m	>200	**15**	15	18
Chromium	ppm	ASTM D5185m	>5	**0**	0	<1
Nickel	ppm	ASTM D5185m	>5	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>7	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**0**	1	1
Lead	ppm	ASTM D5185m	>45	**0**	2	<1
Copper	ppm	ASTM D5185m	>225	**2**	3	4
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

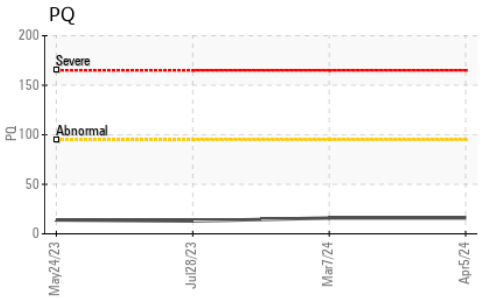
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	**4**	4	<1
Barium	ppm	ASTM D5185m	10	**0**	0	0
Molybdenum	ppm	ASTM D5185m	10	**2**	3	1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	100	**97**	93	79
Calcium	ppm	ASTM D5185m	3500	**3242**	3168	3114
Phosphorus	ppm	ASTM D5185m	1150	**1020**	1018	1017
Zinc	ppm	ASTM D5185m	1150	**1166**	1038	1208
Sulfur	ppm	ASTM D5185m	5000	**3867**	3850	3916

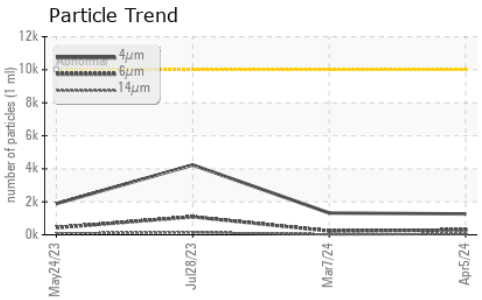
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**10**	10	17
Sodium	ppm	ASTM D5185m		**0**	1	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1

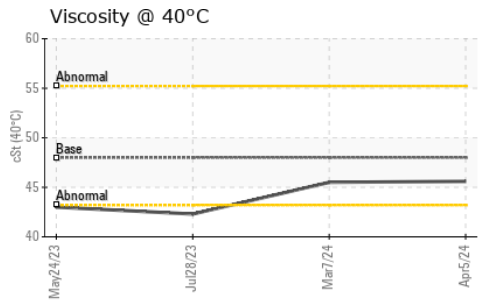
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**1264**	1322	4233
Particles >6µm		ASTM D7647	>2500	**294**	230	1090
Particles >14µm		ASTM D7647	>320	**41**	23	142
Particles >21µm		ASTM D7647	>80	**10**	8	37
Particles >38µm		ASTM D7647	>20	**0**	0	1
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**17/15/13**	18/15/12	19/17/14

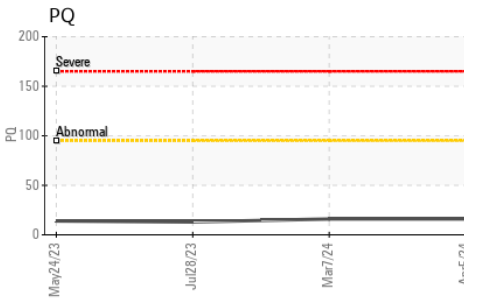
OIL ANALYSIS REPORT

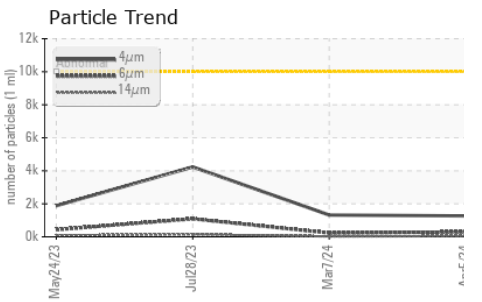
PetroCard MORE THAN JUST FUEL.











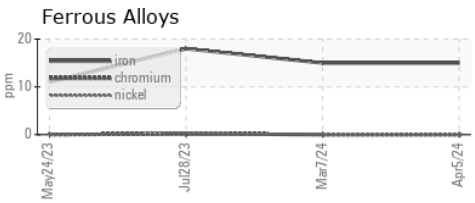
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	**1.05**	1.19	1.257

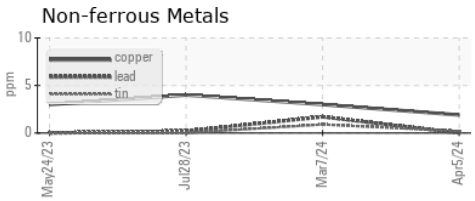
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

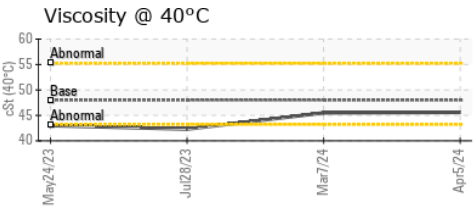
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48	**45.6**	45.5	42.3

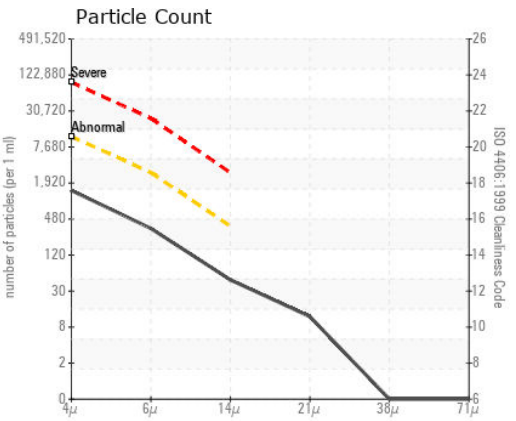
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

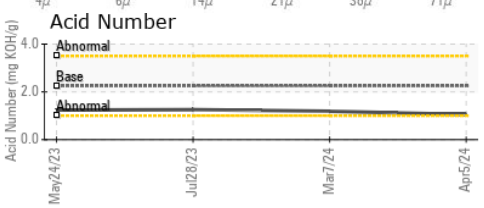
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003822 **Received** : 10 Apr 2024
Lab Number : 06144106 **Tested** : 11 Apr 2024
Unique Number : 10968914 **Diagnosed** : 12 Apr 2024 - Don Baldridge
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

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)

MORNING STAR DAIRY
801 FM 694
DALHART, TX
US 79022
Contact: JOHN DEVRIES
johnidevries@gmail.com
T:
F:

Report Id: MORDAL [WUSCAR] 06144106 (Generated: 04/12/2024 12:50:39) Rev: 1

Submitted By: ROCHELLE MENDOZA