FLUID ANALYSIS

UIN 0AE594B

Transmission

Unit No. 1DW644LZJLL707689

Unit:

Make John Deere
Model 644L
Serial No. 1DW644LZJLL707689

Site 406005

Compartment:

Name Transmission
Make
Model
Serial No.
Capacity:

Customer:

PEGASUS LINK
PO Box 223727
Dallas TX 75222
USA

DIAGNOSIS

No recommended action at this time. Resample at normal intervals.

ANALYST: Sam Smith Phoenix

Normal

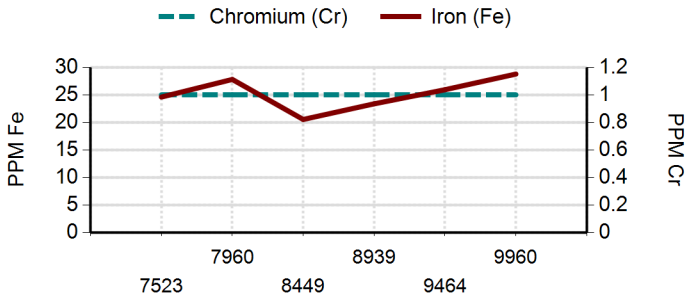
LEGEND

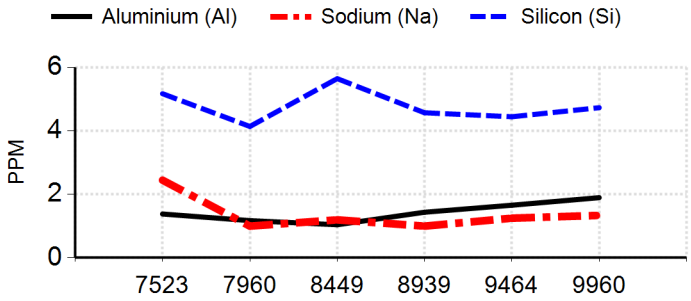
Severe | Abnormal | Caution | Normal

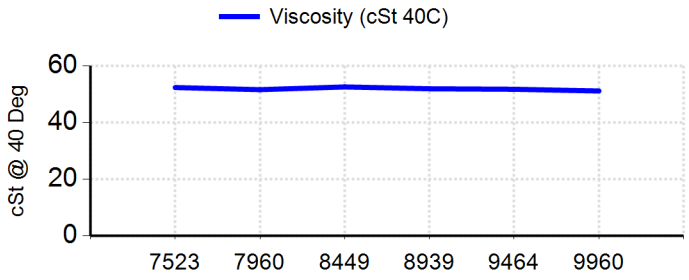
DATE SAMPLED		01-Feb-26	04-Dec-25	29-Sep-25	24-Jun-25	09-Jan-25	01-Oct-24
DATE RECEIVED		09-Feb-26	12-Dec-25	07-Oct-25	01-Jul-25	21-Jan-25	08-Oct-24
DATE REPORTED		10-Feb-26	15-Dec-25	08-Oct-25	01-Jul-25	22-Jan-25	10-Oct-24
LAB NO.		44023870369	44023825985	44023771173	44023689792	44023553400	44023465607
SIF NO.		JDP010390422	JDP010317407	JDP010207882	JDP010110775	JDP010043011	JDP010034749
TIME ON UNIT	Hrs	9960	9464	8939	8449	7960	7523
TIME ON OIL	Hrs	2000	1504	979	489	7960	7523
OIL BRAND		John Deere	John Deere	John Deere	John Deere	John Deere	John Deere
OIL TYPE		Hy-Gard	Hy-Gard	Hy-Gard	Hy-Gard	Hy-Gard	Hy-Gard
OIL GRADE		THF	THF	THF	THF	THF	THF
OIL ADDED							
FILTER		2000	1504	979	489	7960	7523
OIL CHANGED		Changed	Not Changed	Not Changed	Not Changed	Changed	Not Changed
WO NUMBER		30396	29280	27737	W25532	22117	19766
Physical / Chemical							
Acid Number (mgKOH/g)		1.58	1.66	1.67	2.58	3.59	3.13
Metals (ppm)							
Iron (Fe)		29	26	23	21	28	25
Chromium (Cr)		<1	<1	<1	<1	<1	<1
Lead (Pb)		<1	<1	<1	<1	<1	<1
Copper (Cu)		1	1	1	1	2	2
Tin (Sn)		<1	<1	<1	<1	<1	<1
Aluminium (Al)		2	2	1	1	1	1
Nickel (Ni)		<1	<1	<1	<1	<1	<1
Silver (Ag)		<1	<1	<1	<1	<1	<1
Titanium (Ti)		<1	<1	<1	<1	<1	<1
Vanadium (V)		<1	<1	<1	<1	<1	<1
Contaminants (ppm)							
Silicon (Si)		5	4	5	6	4	5
Sodium (Na)		1	1	<1	1	<1	2
Potassium (K)		<1	<1	2	<1	<1	<1
Water (%)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Solids (%)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Additives (ppm)							
Magnesium (Mg)		102	100	99	102	79	87
Calcium (Ca)		3189	3187	3161	3120	2396	2642
Barium (Ba)		<1	<1	<1	<1	<1	<1
Phosphorus (P)		1052	1022	1048	1032	874	978
Zinc (Zn)		988	977	943	1049	840	965
Molybdenum (Mo)		2	3	2	3	2	2
Boron (B)		7	7	7	7	<5	<5
Physical Tests							
Viscosity (cSt 40C)		51.2	51.8	52.0	52.6	51.6	52.4
Additional							
PQ Index		13	<10	<10	10	<10	10

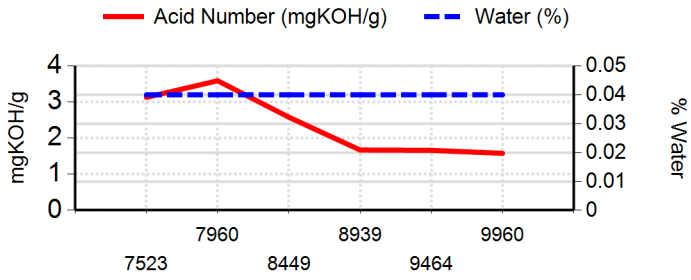
FLUID ANALYSIS

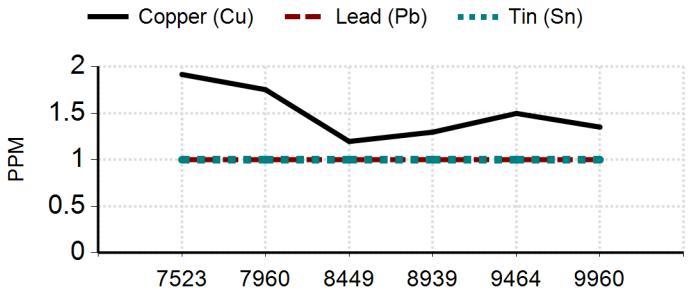
UIN 0AE594B











Filter Image

Filter patch test is not performed Contact laboratory for more information

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

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Kansas City, KS 66115
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Prague

TEST METHODS:

Acid Number:	ASTM D974/D664 (*M)
Base Number:	ASTM D4739 (*M)
Base Number (Perchloric):	ASTM D2896B, back (*M)
Fuel Dilution by GC:	ASTM D7593
Fuel Dilution Visc/Setaflash	In House
Fuel Soot ATR/IR:	ASTM D7686 (*M)
Soot by FTIR:	ASTM D7844
Glycol:	In House
Metals by ICP AES:	ASTM D5185 (*M)
Ox, NOx, SOx, FTIR:	ASTM E2412/D7418/D7414 D7415
PQ Index:	ASTM D8120 (*M)
Particle Count:	ASTM D7647 (*M) / ISO 4406
Kinematic Viscosity:	ASTM D445 (*M) / D7279 (*M)
Water KF:	D6304 / E203 (*M)
Water Crackle:	In House

*M - Modified Method