FLUID ANALYSIS

UIN 08AFCED

Power Shift Transmission

Unit No. 1DW644PAVMLZ10431

Unit:

Make	John Deere
Model	644P
Serial No.	1DW644PAVMLZ10431
Site	406016

Compartment:

Name	Power Shift 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

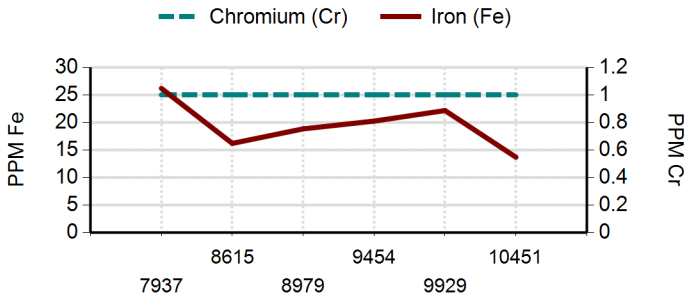
LEGEND

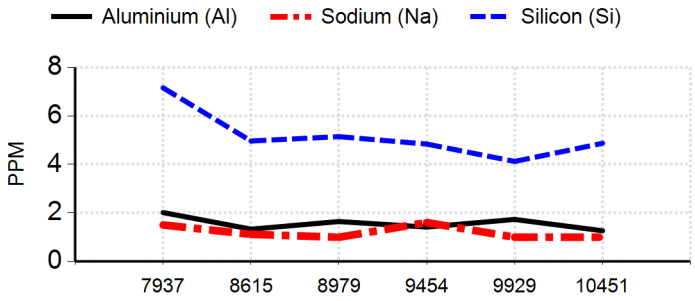
Severe | Abnormal | Caution | Normal

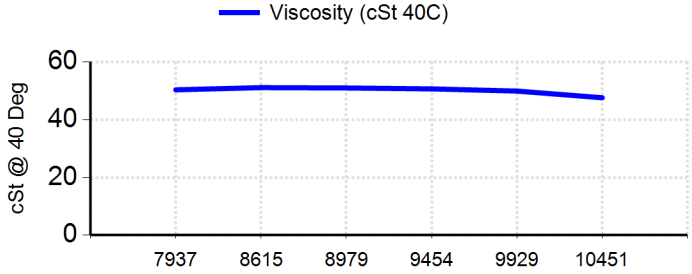
DATE SAMPLED		24-Aug-26	25-Feb-26	14-Nov-25	19-Sep-25	13-Aug-25	19-May-25
DATE RECEIVED		28-Aug-26	03-Mar-26	21-Nov-25	26-Sep-25	25-Aug-25	23-May-25
DATE REPORTED		31-Aug-26	04-Mar-26	24-Nov-25	29-Sep-25	26-Aug-25	27-May-25
LAB NO.		44024035566	44023889378	44023809909	44023763115	44023735827	44023660989
SIF NO.		JDP010583483	JDP010218607	JDP010317295	JDP010204737	JDP010131693	JDP010091130
TIME ON UNIT	Hrs	10451	9929	9454	8979	8615	7937
TIME ON OIL	Hrs	522	1992	1517	1042	678	1821
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		522	1992	1517	1042	678	1821
OIL CHANGED		Not Changed	Changed	Not Changed	Not Changed	Not Changed	Changed
WO NUMBER		34587	W30856	W28929	W27459	26336	W24826
Physical / Chemical							
Acid Number (mgKOH/g)		1.90	1.56	1.64	1.70	2.61	2.52
Metals (ppm)							
Iron (Fe)		14	22	20	19	16	26
Chromium (Cr)		<1	<1	<1	<1	<1	<1
Lead (Pb)		<1	<1	<1	<1	<1	<1
Copper (Cu)		3	3	4	3	3	5
Tin (Sn)		<1	<1	<1	<1	<1	<1
Aluminium (Al)		1	2	1	2	1	2
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	5	5	7
Sodium (Na)		<1	<1	2	<1	1	2
Potassium (K)		1	<1	1	<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)		112	102	102	104	103	88
Calcium (Ca)		3273	3107	3128	3031	3024	2743
Barium (Ba)		<1	<1	<1	<1	<1	<1
Phosphorus (P)		1094	1012	1025	998	1053	1012
Zinc (Zn)		1188	1089	1121	1114	1157	1133
Molybdenum (Mo)		6	4	4	4	4	3
Boron (B)		6	<5	5	5	6	<5
Physical Tests							
Viscosity (cSt 40C)		47.6	49.9	50.7	51.0	51.1	50.4
Additional							
PQ Index		<10	<10	<10	<10	<10	<10

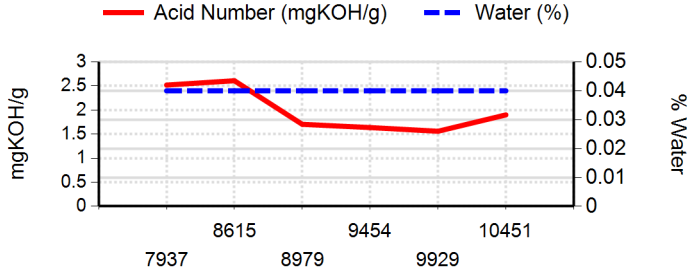
FLUID ANALYSIS

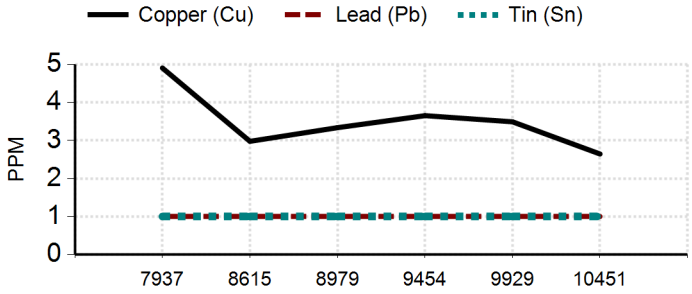
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Filter Image

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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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