FLUID ANALYSIS

UIN 08AE06C

Power Shift Transmission

Unit No. 1DW644PAAMLZ10446

Unit:

Make	John Deere
Model	644P
Serial No.	1DW644PAAMLZ10446
Site	406018

Compartment:

Name	Powershift 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

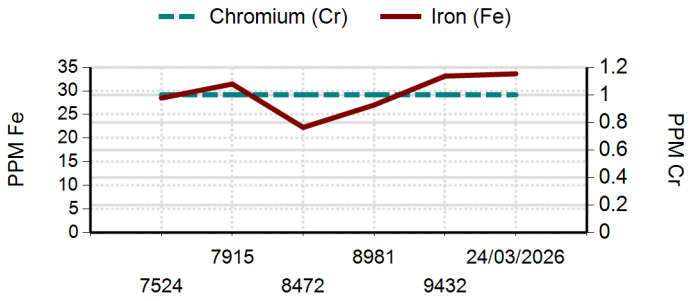
LEGEND

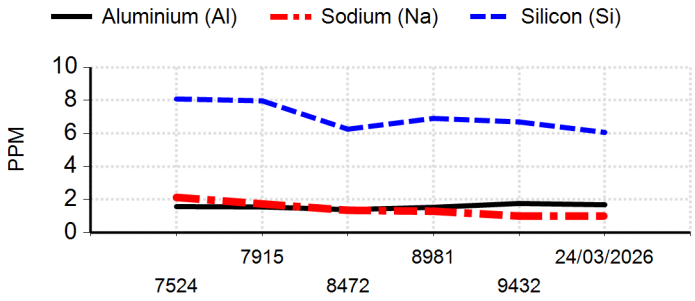
Severe | Abnormal | Caution | Normal

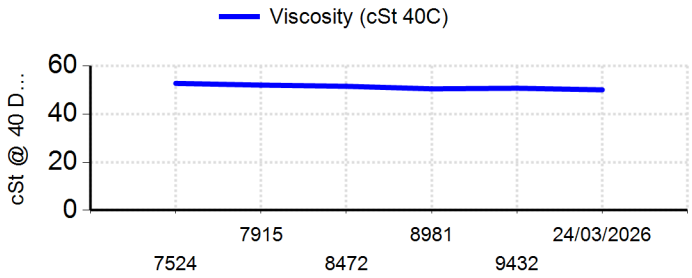
DATE SAMPLED		24-Mar-26	20-Oct-25	02-Jun-25	07-Mar-25	28-Oct-24	05-Aug-24
DATE RECEIVED		01-Apr-26	05-Nov-25	06-Jun-25	14-Mar-25	01-Nov-24	19-Aug-24
DATE REPORTED		03-Apr-26	06-Nov-25	06-Jun-25	17-Mar-25	04-Nov-24	21-Aug-24
LAB NO.		44023914724	44023795698	44023670532	44023598976	44023488928	44023421513
SIF NO.		JDP010363684	JDP010415402	JDP010087810	JDP010065629	JDP010043131	704442649
TIME ON UNIT	Hrs		9432	8981	8472	7915	7524
TIME ON OIL	Hrs		1517	1066	557	5280	4889
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				0.0			
FILTER			1517	1066	557	1442	1051
OIL CHANGED		Changed	Not Changed	Not Changed	Not Changed	Changed	Not Changed
WO NUMBER		31399	28359	24975	23194	W20804	18624
Physical / Chemical							
Acid Number (mgKOH/g)		1.65	1.62	2.26	2.78	3.07	2.60
Metals (ppm)							
Iron (Fe)		34	33	27	22	31	28
Chromium (Cr)		<1	<1	<1	<1	<1	<1
Lead (Pb)		<1	<1	<1	<1	<1	<1
Copper (Cu)		2	2	2	2	2	3
Tin (Sn)		<1	<1	<1	<1	<1	<1
Aluminium (Al)		2	2	2	1	2	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)		6	7	7	6	8	8
Sodium (Na)		<1	<1	1	1	2	2
Potassium (K)		<1	3	<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)		103	106	103	96	90	92
Calcium (Ca)		3249	3337	3240	2900	2572	2732
Barium (Ba)		<1	<1	<1	<1	<1	<1
Phosphorus (P)		1040	1078	1068	1008	958	1010
Zinc (Zn)		1084	1135	1141	1053	1011	1098
Molybdenum (Mo)		2	3	2	2	4	4
Boron (B)		<5	<5	<5	<5	<5	6
Physical Tests							
Viscosity (cSt 40C)		50.1	50.8	50.5	51.5	52.0	52.8
Additional							
PQ Index		13	<10	<10	<10	11	<10

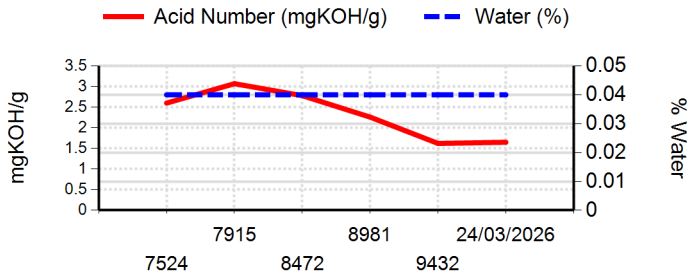
FLUID ANALYSIS

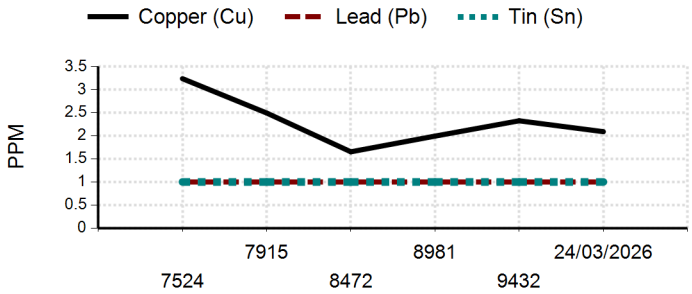
UIN 08AE06C











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