FLUID ANALYSIS

UIN 096B64B

Diesel Engine

Unit No. 1DW624PAAMLZ11358

Unit:

Make John Deere
Model 624P
Serial No. 1DW624PAAMLZ11358

Site 406028

Compartment:

Name Diesel Engine
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

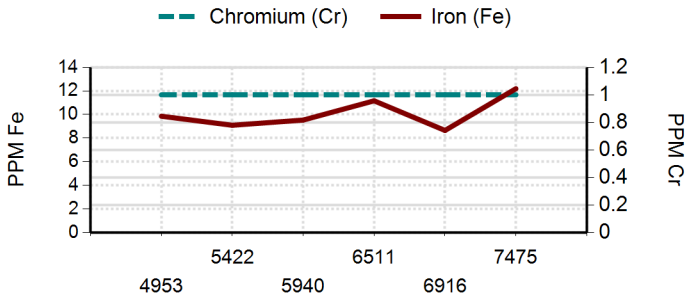
LEGEND

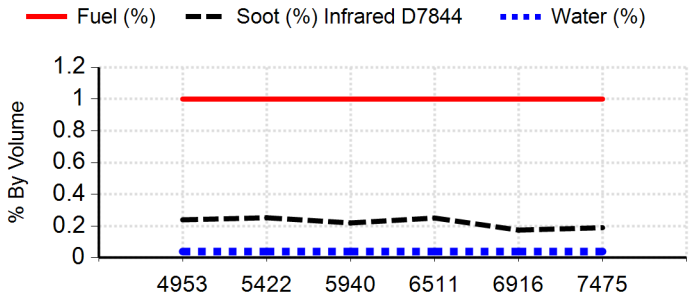
Severe | Abnormal | Caution | Normal

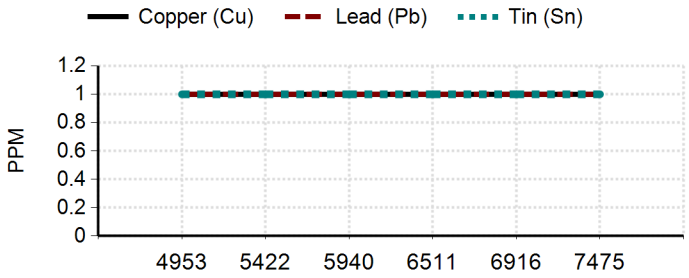
DATE SAMPLED		26-Mar-26	16-Dec-25	23-Sep-25	26-Jun-25	27-Feb-25	09-Oct-24
DATE RECEIVED		03-Apr-26	22-Dec-25	02-Oct-25	07-Jul-25	07-Mar-25	15-Oct-24
DATE REPORTED		06-Apr-26	23-Dec-25	03-Oct-25	08-Jul-25	07-Mar-25	16-Oct-24
LAB NO.		44023916475	44023832413	44023767267	41023932695	44023592134	44023471958
SIF NO.		JDP010363785	JDP010235601	JDP010201187	JDP010110679	JDP010059585	JDP010035021
TIME ON UNIT	Hrs	7475	6916	6511	5940	5422	4953
TIME ON OIL	Hrs	559	405	571	518	469	514
OIL BRAND		John Deere	John Deere	John Deere	John Deere	John Deere	John Deere
OIL TYPE		Plus-50 II	Plus-50 II	Plus-50 II	Plus-50 II	Plus-50 II	Plus-50 II
OIL GRADE		SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40
OIL ADDED					0.0		
FILTER		559	405	571	518	469	514
OIL CHANGED		Changed	Changed	Changed	Changed	Changed	Changed
WO NUMBER		31428	W29639	W27478	25534	W23061	W20205
Metals (ppm)							
Iron (Fe)		12	9	11	10	9	10
Chromium (Cr)		<1	<1	<1	<1	<1	<1
Lead (Pb)		<1	<1	<1	<1	<1	<1
Copper (Cu)		<1	<1	<1	<1	<1	<1
Tin (Sn)		<1	<1	<1	<1	<1	<1
Aluminium (Al)		2	2	3	11	3	3
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	5	5	5	5	4
Sodium (Na)		3	3	3	2	7	3
Potassium (K)		2	1	2	3	<1	2
Water (%)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coolant		No	No	No	No	No	No
Fuel (%)		<1	<1	<1	<1	<1	<1
Soot (%) Infrared D7844		0.2	0.2	0.3	0.2	0.3	0.2
Additives (ppm)							
Magnesium (Mg)		657	737	799	677	838	782
Calcium (Ca)		1498	1494	1446	1370	1433	1291
Barium (Ba)		<1	<1	<1	<1	<1	<1
Phosphorus (P)		981	985	971	893	950	916
Zinc (Zn)		1133	1117	1121	1043	1120	1058
Molybdenum (Mo)		193	227	255	264	261	255
Boron (B)		168	222	179	248	249	234
Physical Tests							
Viscosity (cSt 100C)		13.5	13.8	13.7	13.4	13.5	13.8
Physical / Chemical							
Base number (mgKOH/g)		6.6	7.1	6.6	6.7	6.2	6.7
Oxidation (Abs/0.1mm) E2412/D7414		16	17	17	16	17	16
Nitration (Abs/0.1mm) E2412		8	8	8	8	8	8
Sulphation (Abs/0.1mm) E2412/D7415		22	22	23	22	22	22

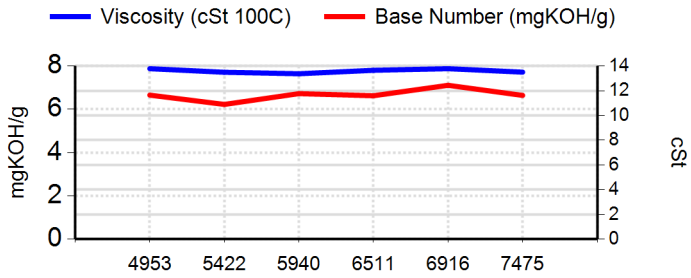
FLUID ANALYSIS

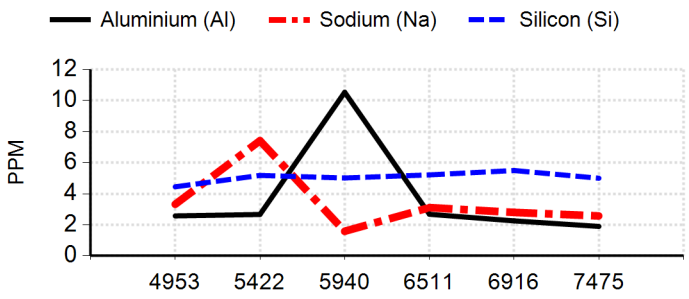
UIN 096B64B











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