

1 - PACHEA FISHING - DIESEL ENGINE

Sample No: OF0001057

Oil Type: JOHN DEERE ENGINE OIL PLUS 50 II 15W40

SAMPLE INFORMATION

Sample Number	OF0001057	---	---	---
Sample Date	31 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	400	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

Oil Filtration Solutions Ltd.
 PO BOX 16125
 CONCEPTION BAY SOUTH, NL
 CA A1X 2E2
 Contact: BILL BUTLER
 BBUTLER@OILFILTRATIONSOLUTIONS.COM
 T: (709)834-8433
 F: (709)834-8435

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 8.64	---	---	---
Oxidation (PA)	%	51	---	---	---

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	46	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 5.4	---	---	---
Silicon	ppm	▲ 29	---	---	---
Sodium	ppm	■ 20	---	---	---
Potassium	ppm	■ 21	---	---	---

WEAR METALS

Iron	ppm	■ 5	---	---	---
Copper	ppm	■ 70	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 115	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 1500	---	---	---
Magnesium	ppm	171	---	---	---
Zinc	ppm	■ 946	---	---	---
Phosphorus	ppm	■ 820	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	39	4:12:25 Rev: 1	---	---

Depot: FILCON
Unique No: 10978988
Signed: Jonathan Hester
Report Date: 19 Apr 2024
 Contact/Location: BILL BUTLER - FILCON

GRAPHS

