



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
FISCHER PANDA 2108182
Component
Genset
Fluid
DIESEL ENGINE OIL SAE 30 (1 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA036420	---	---
Sample Date		Client Info		16 May 2024	---	---
Machine Age	hrs	Client Info		23	---	---
Oil Age	hrs	Client Info		23	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	16	---	---
Chromium	ppm	ASTM D5185m	>4	<1	---	---
Nickel	ppm	ASTM D5185m	>2	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>5	0	---	---
Aluminum	ppm	ASTM D5185m	>12	7	---	---
Lead	ppm	ASTM D5185m	>17	<1	---	---
Copper	ppm	ASTM D5185m	>70	12	---	---
Tin	ppm	ASTM D5185m	>15	1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

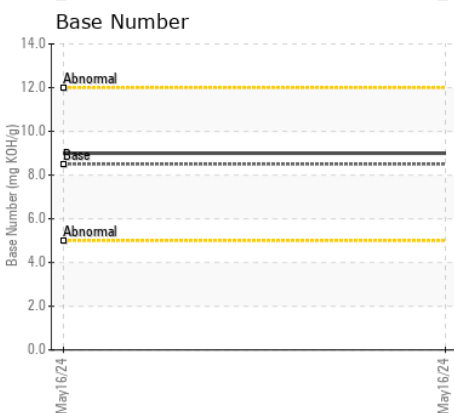
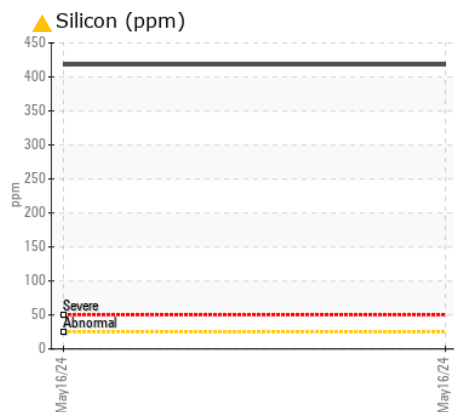
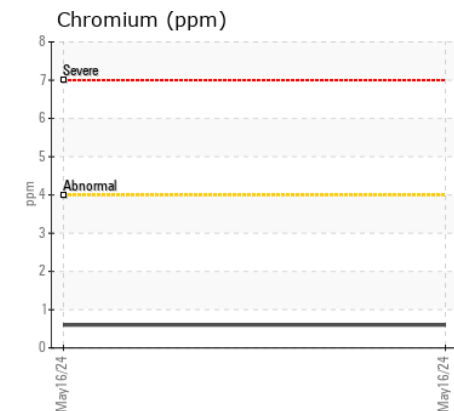
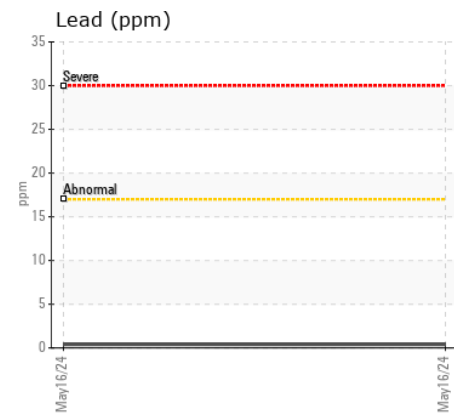
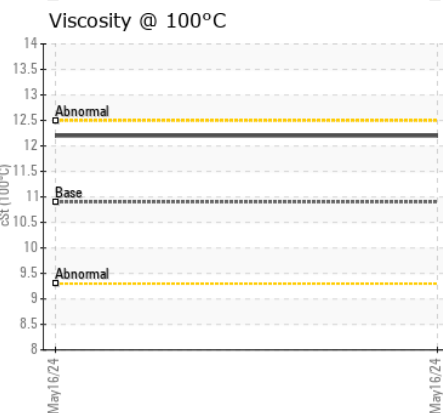
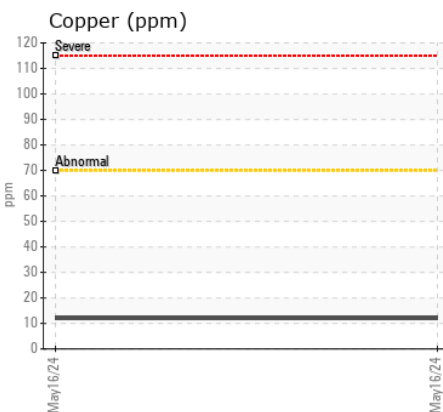
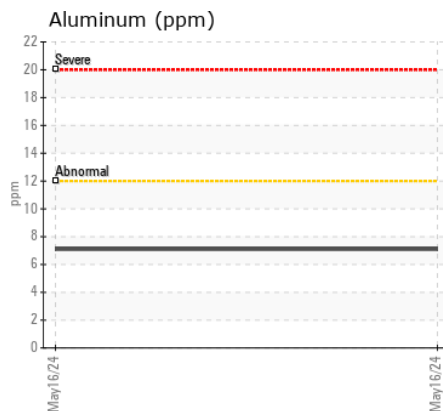
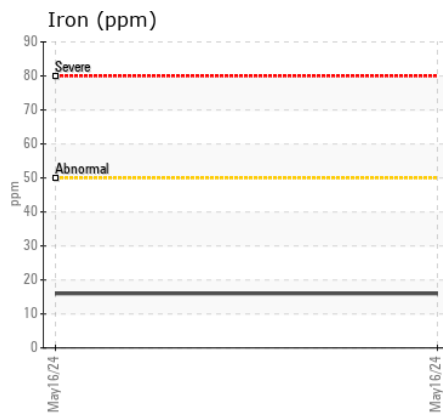
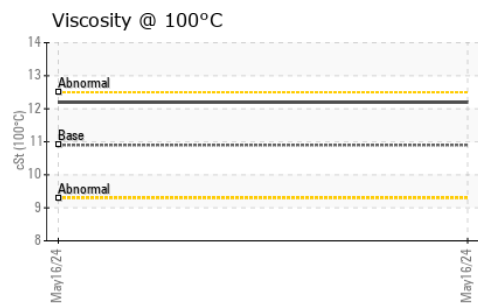
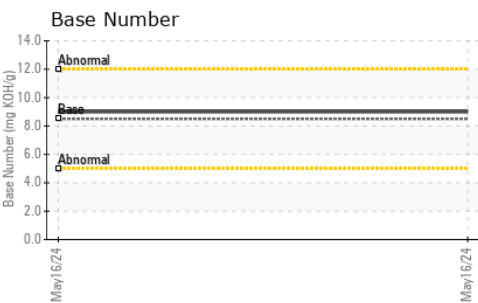
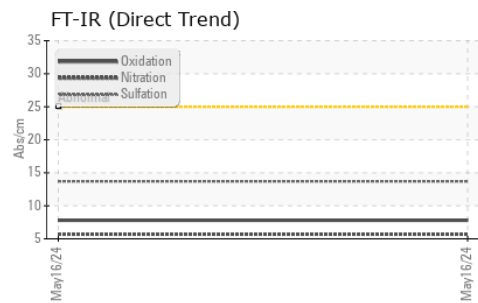
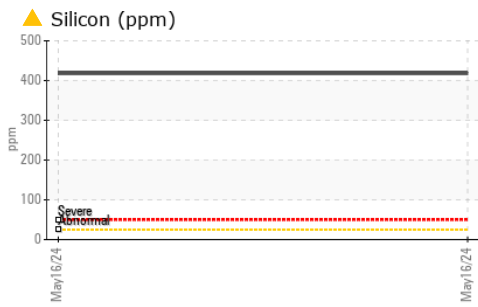
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>25	▲ 418	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	5.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.7	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>75	2	---	---
Boron	ppm	ASTM D5185m	250	78	---	---
Barium	ppm	ASTM D5185m	10	1	---	---
Molybdenum	ppm	ASTM D5185m	100	50	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m	450	1064	---	---
Calcium	ppm	ASTM D5185m	3000	1323	---	---
Phosphorus	ppm	ASTM D5185m	1150	981	---	---
Zinc	ppm	ASTM D5185m	1350	1163	---	---
Sulfur	ppm	ASTM D5185m	4250	3543	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.0	---	---
Visc @ 100°C	cSt	ASTM D445	10.9	12.2	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA036420
Lab Number : 06185767
Unique Number : 11042519
Test Package : MOB 1 (Additional Tests: TBN)

Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Jonathan Hester

Quality Boats of Clearwater
 235 Windward Passage, 235 Windward Passage
 CLEARWATER, FL
 US 33767
 Contact: Parker Rabe
 danbair@qualityboatsales.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: