



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Area

[PMOAS2971100]

Machine Id

CATEPILLAR C4-4 CAT0044CP4B00689

Component

Tank Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0035913	DC0012417	---
Sample Date		Client Info		03 May 2024	08 Aug 2023	---
Machine Age	hrs	Client Info		613	584	---
Sample Status				ABNORMAL	NORMAL	---

CORROSION

All metal levels are normal indicating no corrosion in the system.

Aluminum	ppm	ASTM D5185m	<0.1	0	<1	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---

CONTAMINANTS

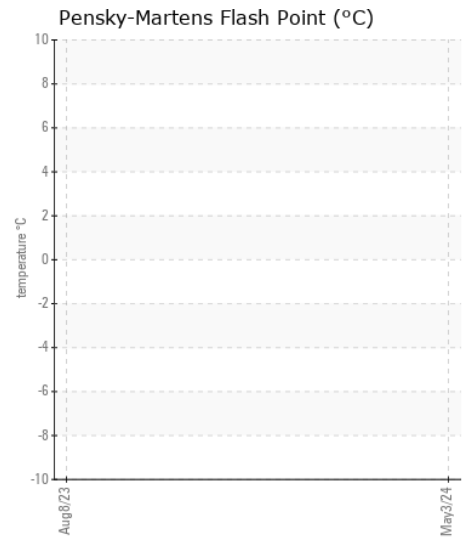
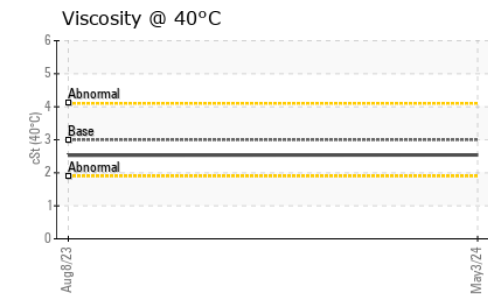
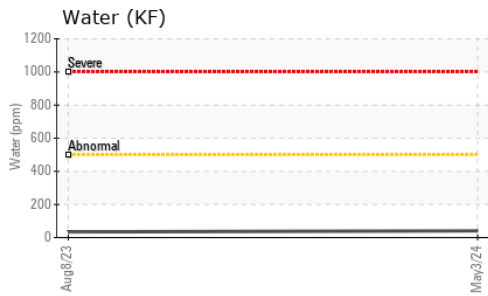
Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Silicon	ppm	ASTM D5185m	<1.0	<1	0	---
Sodium	ppm	ASTM D5185m	<0.1	<1	0	---
Potassium	ppm	ASTM D5185m	<0.1	0	<1	---
Water	%	ASTM D6304	<0.05	0.004	0.003	---
ppm Water	ppm	ASTM D6304	<500	41	34.2	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---
Bacteria	CFU/ml	WC-Method	>=100000	0	---	---
Yeast	CFU/ml	WC-Method	>=100000	0	---	---
Mold	Colonies	WC-Method	MODER	---	---	---
Calcium	ppm	ASTM D5185m	<0.1	<1	7	---
Magnesium	ppm	ASTM D5185m	<0.1	0	6	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	6	---
Zinc	ppm	ASTM D5185m	<0.1	0	6	---

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

ASTM Color	scalar	*ASTM D1500		L4.5	L4.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.54	2.53	---
Sulfur	ppm	ASTM D5185m	10	8	0	---
Sulfur (UVF)	ppm	ASTM D5453		20	25	---
API Gravity		ASTM D7777	37.7	35.3	35.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : DC0035913

Lab Number : 06175996

Unique Number : 11022049

Test Package : DF-5 (Additional Tests: API, Bacteria, Cetane, Fuel, PrtCount, Screen)

Received : 10 May 2024

Tested : 04 Jun 2024

Diagnosed : 04 Jun 2024 - Doug Bogart

KELLY GENERATOR & EQUIPMENT INC

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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)