



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Area
[PMOAS3372447]

Machine Id
WGD709410070

Component
Diesel Fuel

Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

RECOMMENDATION

We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034024	DC0029070	DC0019549
Sample Date		Client Info		18 Apr 2024	11 Apr 2023	29 Apr 2022
Machine Age	hrs	Client Info		138	101	94
Sample Status				ABNORMAL	NORMAL	NORMAL

CORROSION

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

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

CONTAMINANTS

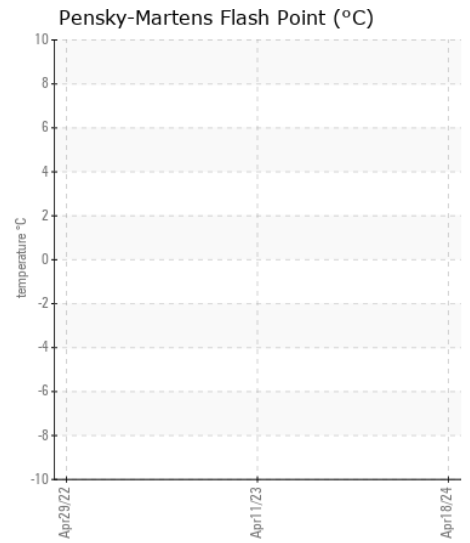
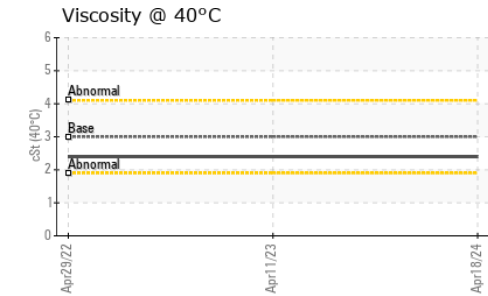
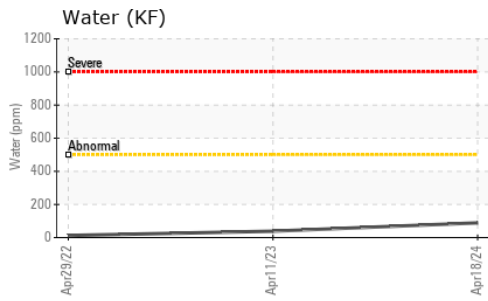
Moderate concentration of visible dirt/debris present in the fuel. There is a light concentration of Bacteria, Yeast and/or Fungus present in the sample.

Silicon	ppm	ASTM D5185m	<1.0	<1	<1	7
Sodium	ppm	ASTM D5185m	<0.1	0	<1	0
Potassium	ppm	ASTM D5185m	<0.1	0	<1	0
Water	%	ASTM D6304	<0.05	0.008	0.003	0.001
ppm Water	ppm	ASTM D6304	<500	89	38.6	12.8
Particles >4µm		ASTM D7647	>2500	---	1338	22164
Particles >6µm		ASTM D7647	>640	---	289	3958
Particles >14µm		ASTM D7647	>80	---	26	364
Particles >21µm		ASTM D7647	>20	---	7	100
Particles >38µm		ASTM D7647	>4	---	0	2
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	18/15/12	22/19/16
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	1.1	0.0
Bacteria	CFU/ml	WC-Method	>=100000	0	---	---
Yeast	CFU/ml	WC-Method	>=100000	10	---	---
Mold	Colonies	WC-Method	MODER	---	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	<1	18
Magnesium	ppm	ASTM D5185m	<0.1	0	6	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	3	4
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

ASTM Color	scalar	*ASTM D1500		L4.5	L1.5	L1.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.4	2.4	2.4
Sulfur	ppm	ASTM D5185m	10	0	0	21
Sulfur (UVF)	ppm	ASTM D5453		30	11	9
API Gravity		ASTM D7777	37.7	37.0	37.4	37.6



Certificate L2367

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

Sample No. : DC0034024

Lab Number : 06159983

Unique Number : 10995406

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

Received : 24 Apr 2024

Tested : 06 May 2024

Diagnosed : 06 May 2024 - Doug Bogart

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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)