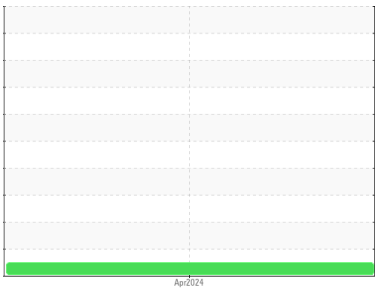
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
NOT GIVEN WC0577825
Component
Gasoline Engine
Fluid
DIESEL ENGINE OIL SAE 5W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0577825**	---	---
Sample Date		Client Info		**15 Apr 2024**	---	---
Machine Age	hrs	Client Info		**1243**	---	---
Oil Age	hrs	Client Info		**86**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**NORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	---	---
Water		WC Method	>0.2	**NEG**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**2**	---	---
Chromium	ppm	ASTM D5185m	>20	**2**	---	---
Nickel	ppm	ASTM D5185m	>5	**<1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>2	**<1**	---	---
Aluminum	ppm	ASTM D5185m	>40	**2**	---	---
Lead	ppm	ASTM D5185m	>50	**2**	---	---
Copper	ppm	ASTM D5185m	>155	**2**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	**164**	---	---
Barium	ppm	ASTM D5185m	10	**0**	---	---
Molybdenum	ppm	ASTM D5185m	100	**82**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m	450	**532**	---	---
Calcium	ppm	ASTM D5185m	3000	**1023**	---	---
Phosphorus	ppm	ASTM D5185m	1150	**652**	---	---
Zinc	ppm	ASTM D5185m	1350	**736**	---	---
Sulfur	ppm	ASTM D5185m	4250	**2806**	---	---

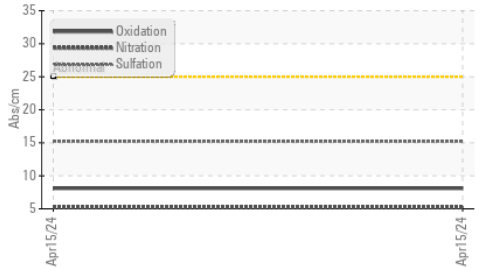
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**16**	---	---
Sodium	ppm	ASTM D5185m	>400	**3**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**5.2**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**15.2**	---	---

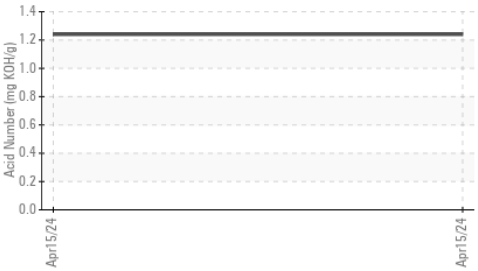
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**8.1**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.24**	---	---

OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Acid Number



Viscosity @ 100°C

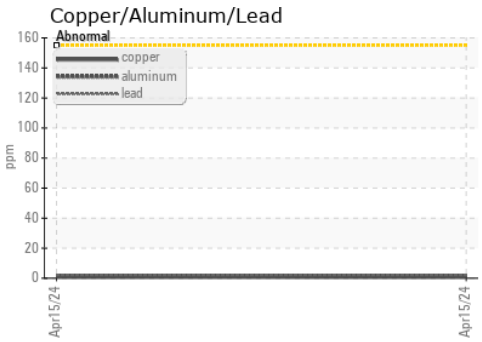
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	**9.5**	---	---

GRAPHS

Iron/Tin/Silver

Copper/Aluminum/Lead



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0577825
Lab Number : 06185218
Unique Number : 11036544
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, FT-IR, ICP, KV100, SCREEN)

Received : 20 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Jonathan Hester

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)

NEO GENERATOR AND ENGINE, LLC
10225 PORTLAND AVE SW
BEACH CITY, OH
US 44608
Contact: BILL HOOD
BHood@neogenservice.com
T: (330)284-8390
F:

Report Id: HSSBEA [WUSCAR] 06185218 (Generated: 05/29/2024 17:33:51) Rev: 1

Contact/Location: BILL HOOD - HSSBEA