



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area

(C-GFNJ)

Machine Id

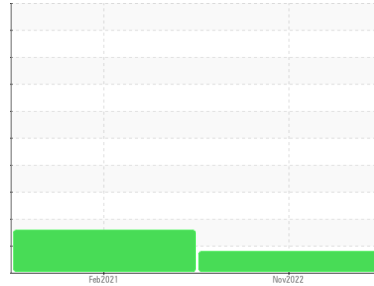
[C-GFNJ] AERO VODOCHODY L-39C 70825400026

Component

Main Jet Turbine

Fluid

ANDEROL ROYCO 481 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using AVI 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes AN to determine the suitability of the oil for continued use.

Wear

Iron ppm levels are abnormal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0720991	WC0527150	---
Sample Date	Client Info		16 Nov 2022	09 Feb 2021	---
TSN	hrs	Client Info	1548	1352	---
TSO	hrs	Client Info	1548	0	---
Oil Age	hrs	Client Info	100	50	---
Oil Changed		Client Info	Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m) >8	▲ 13	1	---
Chromium	ppm	ASTM D5185(m) >2	<1	0	---
Nickel	ppm	ASTM D5185(m) >2	<1	0	---
Titanium	ppm	ASTM D5185(m) >2	0	0	---
Silver	ppm	ASTM D5185(m) >2	0	<1	---
Aluminum	ppm	ASTM D5185(m) >2	<1	<1	---
Lead	ppm	ASTM D5185(m) >3	<1	0	---
Copper	ppm	ASTM D5185(m) >3	1	<1	---
Tin	ppm	ASTM D5185(m) >2	0	0	---
Antimony	ppm	ASTM D5185(m)	<1	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	<1	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	<1	0	---
Magnesium	ppm	ASTM D5185(m)	0	<1	---
Calcium	ppm	ASTM D5185(m)	0	<1	---
Phosphorus	ppm	ASTM D5185(m)	21	23	---
Zinc	ppm	ASTM D5185(m)	<1	<1	---
Sulfur	ppm	ASTM D5185(m)	194	206	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

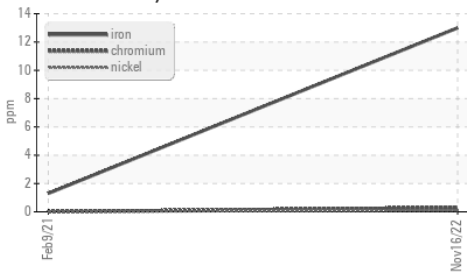
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >8	<1	<1	---
Sodium	ppm	ASTM D5185(m)	0	<1	---
Potassium	ppm	ASTM D5185(m) >20	0	<1	---



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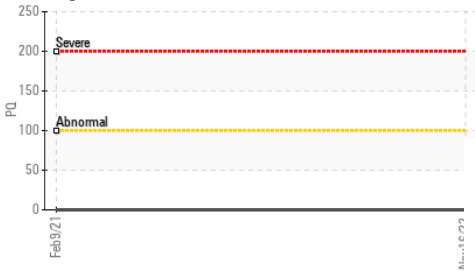
▲ Ferrous Alloys



Viscosity @ 40°C



PQ



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	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	10.5	10.0	9.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

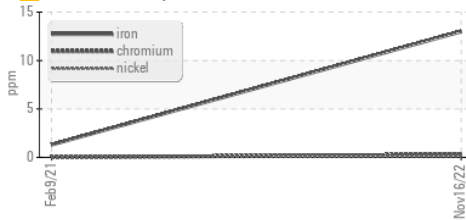
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Bottom

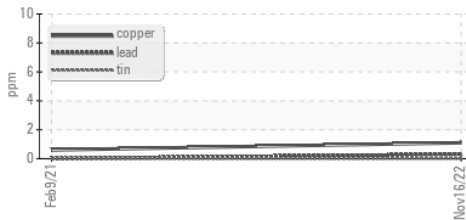
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GRAPHS

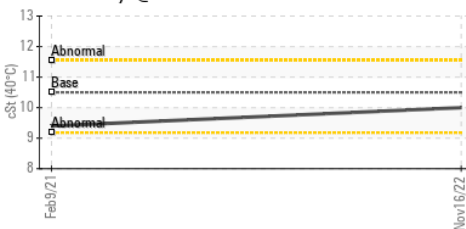
▲ Ferrous Alloys



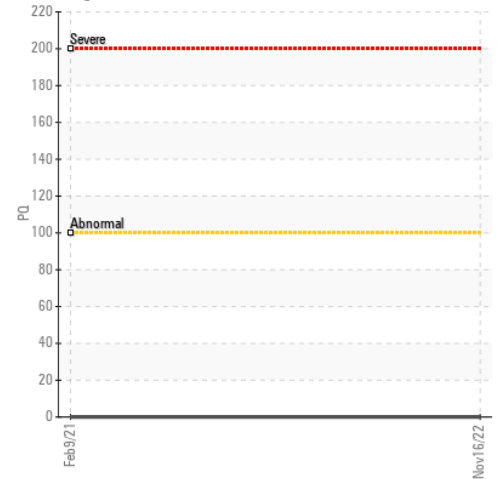
Non-ferrous Metals



Viscosity @ 40°C



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0720991 **Received** : 01 Dec 2022
Lab Number : 02526140 **Tested** : 01 Dec 2022
Unique Number : 5499138 **Diagnosed** : 02 Dec 2022 - Kevin Marson
Test Package : AVI 1 (Additional Tests: PQ)

ITPS Canada
 2465 Aviation Lane., Unit 1
 London, ON
 CA N5V 3Z9
 Contact: Shannon Hickey
 shannon.hickey@itpscanada.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T:
F: