



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

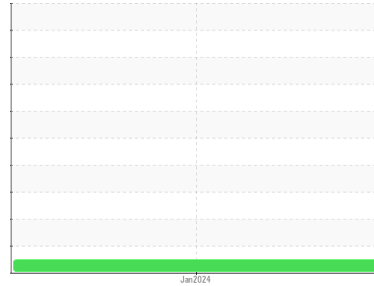


Area
ORIN CONTRACTORS

Machine Id
146

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0888515	---	---
Sample Date	Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	---	---
Water	WC Method	>0.21	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	5	---
Chromium	ppm	ASTM D5185(m)	>11	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>3	0	---
Aluminum	ppm	ASTM D5185(m)	>31	6	---
Lead	ppm	ASTM D5185(m)	>26	0	---
Copper	ppm	ASTM D5185(m)	>26	<1	---
Tin	ppm	ASTM D5185(m)	>4	<1	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	5	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	57	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m)	950	951	---
Calcium	ppm	ASTM D5185(m)	1050	1060	---
Phosphorus	ppm	ASTM D5185(m)	995	1025	---
Zinc	ppm	ASTM D5185(m)	1180	1168	---
Sulfur	ppm	ASTM D5185(m)	2600	2760	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

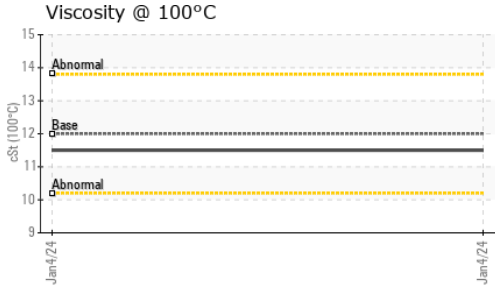
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	2	---
Sodium	ppm	ASTM D5185(m)	>31	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.7	---
Sulfation	Abs./1mm	ASTM D7415*	>30	18.1	---



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FLUID DEGRADATION		method	limit/base	current	history1	history2
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Oxidation	Abs./1mm	ASTM D7414*	>25	13.7	---	---
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VISUAL		method	limit/base	current	history1	history2
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Emulsified Water	scalar	Visual*	>0.21	NEG	---	---
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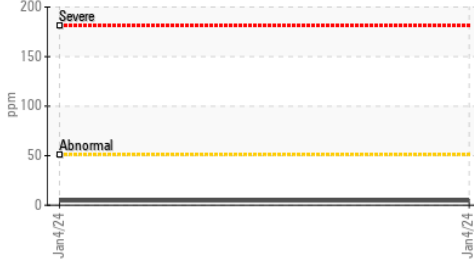
Free Water	scalar	Visual*		NEG	---	---
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FLUID PROPERTIES		method	limit/base	current	history1	history2
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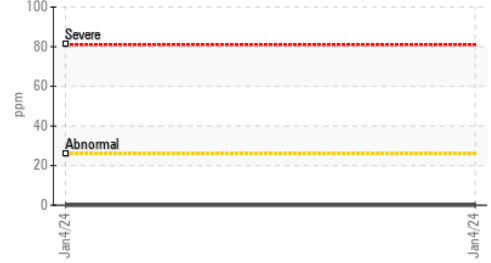
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	---	---
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GRAPHS						
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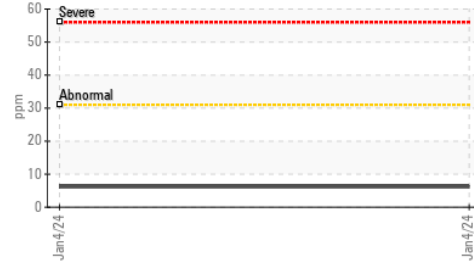
Iron (ppm)



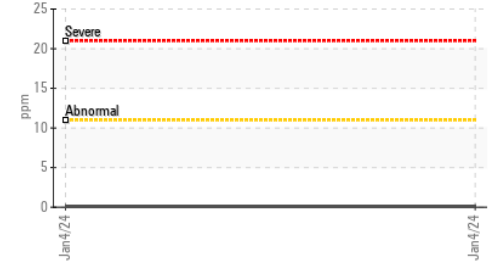
Lead (ppm)



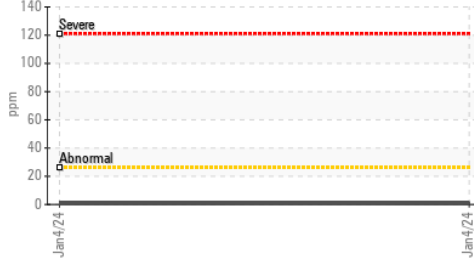
Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



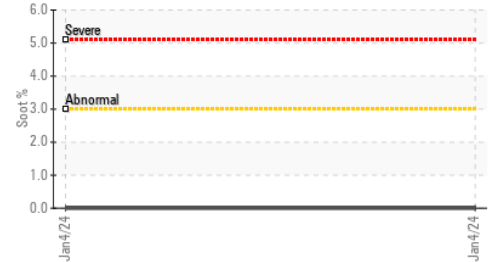
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD.	Recieved : 17 Jan 2024	100 MACINTOSH BLVD
Sample No. : WC0888515	Diagnosed : 17 Jan 2024	VAUGHAN, ON
Lab Number : 02609209	Diagnostician : Wes Davis	CA L4K 4P3
Unique Number : 5710295		Contact: Service Team
Test Package : MOBCE		service.team@roni.ca

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: