



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
CPHU #02
 Component
Unknown Component
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the sample.

Fluid Condition

Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The condition of the sample is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP	WC	WC
Sample Date	Client Info	02 Nov 2022	22 Sep 2022	07 Sep 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		MARGINAL	SEVERE	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	25	29	29
Chromium	ppm	ASTM D5185(m)	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	1	2	2
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m)	2	2	2
Lead	ppm	ASTM D5185(m)	12	17	15
Copper	ppm	ASTM D5185(m)	88	104	100
Tin	ppm	ASTM D5185(m)	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	<1	0	0
Vanadium	ppm	ASTM D5185(m)	<1	<1	<1
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	<1	<1	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<1	1	<1
Barium	ppm	ASTM D5185(m)	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	33	26	28
Calcium	ppm	ASTM D5185(m)	58	51	52
Phosphorus	ppm	ASTM D5185(m)	642	632	620
Zinc	ppm	ASTM D5185(m)	517	472	464
Sulfur	ppm	ASTM D5185(m)	1866	1964	1954
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	12	16	14
Sodium	ppm	ASTM D5185(m)	6	8	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1
Fuel	%	ASTM D7593*	▲ 3	---	---

INFRA-RED

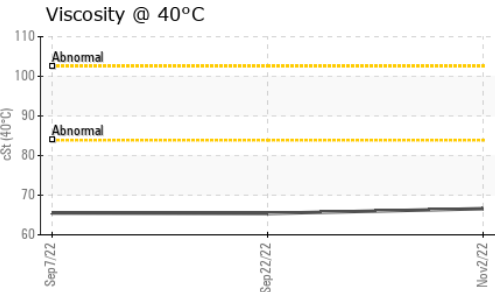
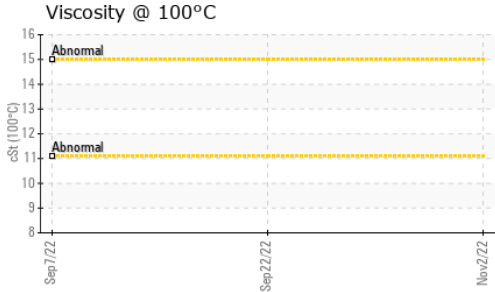
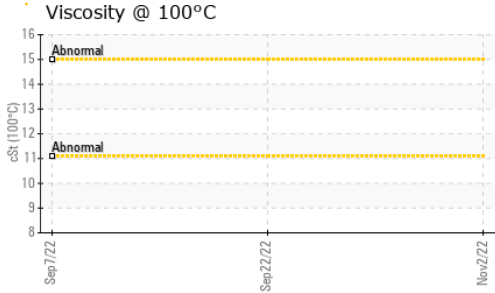
method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624*	2.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	13.4	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	4.6	---	---



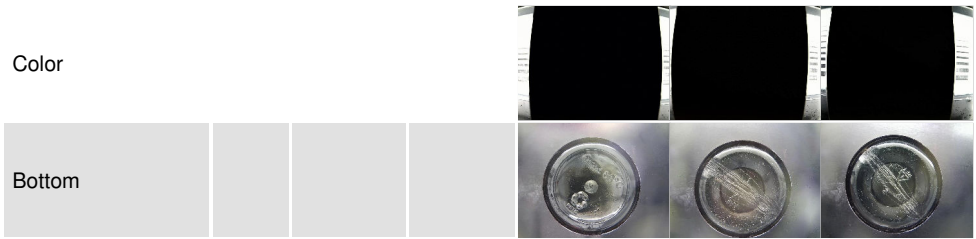
OIL ANALYSIS REPORT



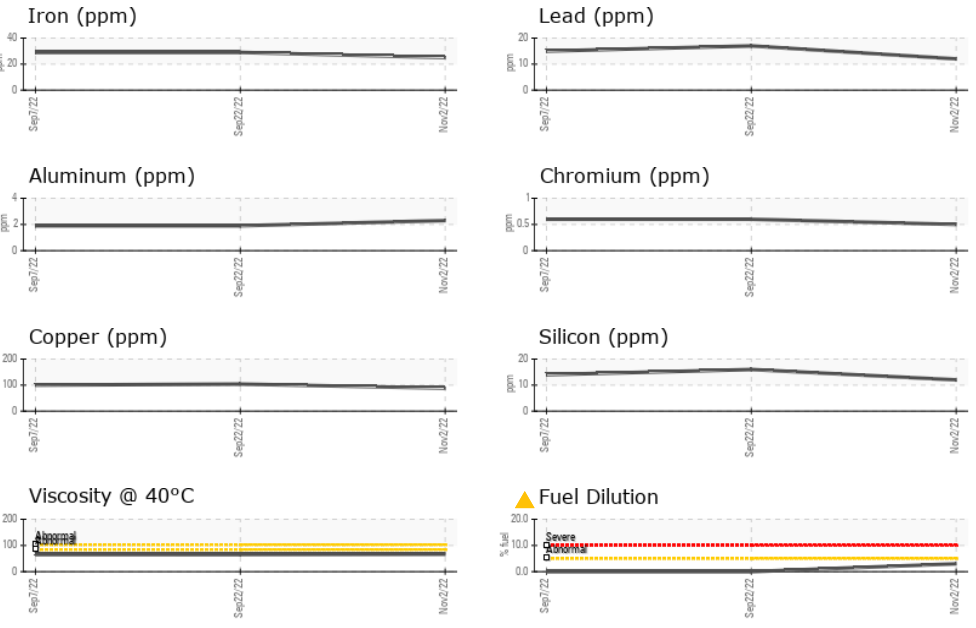
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	66.6	65.4	65.5
Visc @ 100°C	cSt	ASTM D7279(m)	9.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	112	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP **Received** : 03 Nov 2022
Lab Number : 02520426 **Diagnosed** : 04 Nov 2022
Unique Number : 5477406 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, VI)

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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.