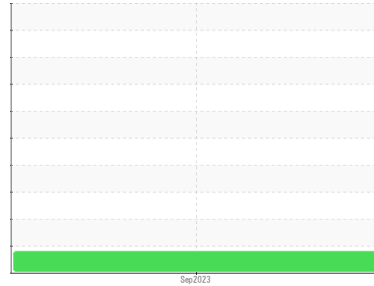


PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id
220
Component
New (Unused) Oil
Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1617	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/14	---	---

Customer Id: PROAMO
Sample No.: PC0080891
Lab Number: 02586747
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
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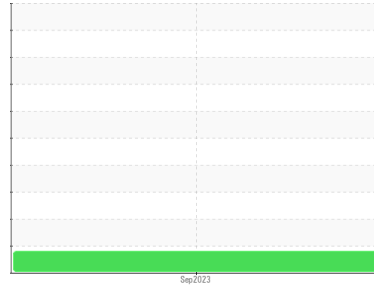
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Alert	---	---	?	NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS



Machine Id
220
Component
New (Unused) Oil
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

Wear
(not applicable)

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0080891	---	---
Sample Date	Client Info	27 Sep 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)		0	---	---
Chromium ppm ASTM D5185(m)		0	---	---
Nickel ppm ASTM D5185(m)		0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)		<1	---	---
Lead ppm ASTM D5185(m)		<1	---	---
Copper ppm ASTM D5185(m)		<1	---	---
Tin ppm ASTM D5185(m)		0	---	---
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)		1	---	---
Barium ppm ASTM D5185(m)		<1	---	---
Molybdenum ppm ASTM D5185(m)		0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)		4	---	---
Calcium ppm ASTM D5185(m)		110	---	---
Phosphorus ppm ASTM D5185(m)		621	---	---
Zinc ppm ASTM D5185(m)		825	---	---
Sulfur ppm ASTM D5185(m)		1797	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

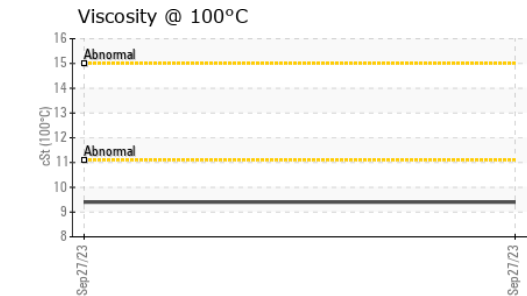
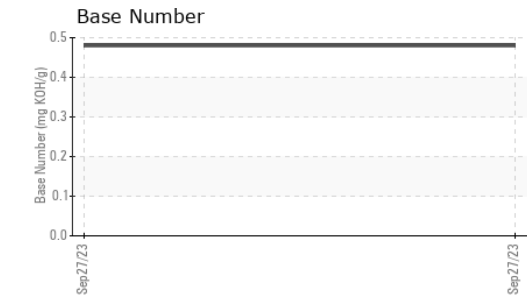
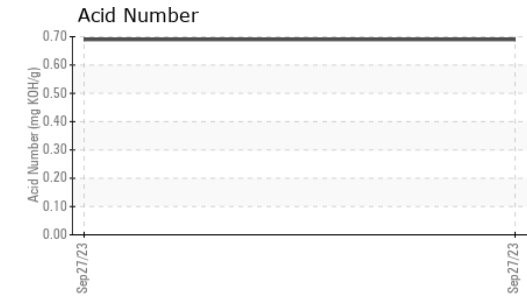
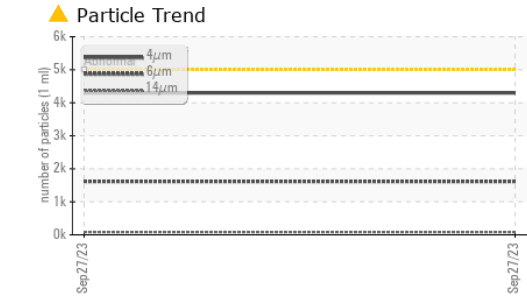
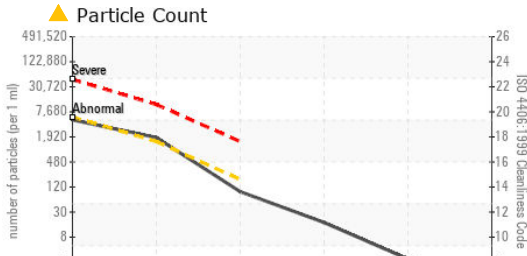
CONTAMINANTS

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

INFRA-RED

method	limit/base	current	history1	history2
Soot % ASTM D7844*		0	---	---
Nitration Abs/cm ASTM D7624*		2.1	---	---
Sulfation Abs/.1mm ASTM D7415*		37.9	---	---

OIL ANALYSIS REPORT

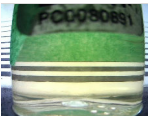



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	4297	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1617	---	---
Particles >14µm	ASTM D7647	>160	82	---	---
Particles >21µm	ASTM D7647	>40	15	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/14	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	30.4	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.69	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	0.48	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	187	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080891
Lab Number : **02586747**
Unique Number : 5655813
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, 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.