



Machine Id
824032

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Usure de cylindre, de vilebrequin ou d'arbre à cames.

Contamination

Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0020994	---	---
Sample Date	Client Info	11 Jul 2023	---	---
Machine Age	hrs Client Info	17937	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184* >65	0	---	---
Iron	ppm ASTM D5185(m) >80	▲ 114	---	---
Chromium	ppm ASTM D5185(m) >5	3	---	---
Nickel	ppm ASTM D5185(m) >2	1	---	---
Titanium	ppm ASTM D5185(m)	<1	---	---
Silver	ppm ASTM D5185(m) >3	0	---	---
Aluminum	ppm ASTM D5185(m) >30	19	---	---
Lead	ppm ASTM D5185(m) >30	0	---	---
Copper	ppm ASTM D5185(m) >150	4	---	---
Tin	ppm ASTM D5185(m) >5	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) 250	33	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	80	---	---
Manganese	ppm ASTM D5185(m)	<1	---	---
Magnesium	ppm ASTM D5185(m) 450	850	---	---
Calcium	ppm ASTM D5185(m) 3000	1188	---	---
Phosphorus	ppm ASTM D5185(m) 1150	965	---	---
Zinc	ppm ASTM D5185(m) 1350	1104	---	---
Sulfur	ppm ASTM D5185(m) 4250	2241	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

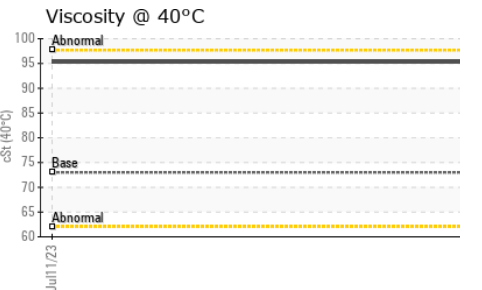
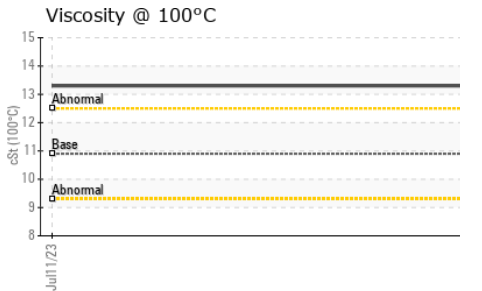
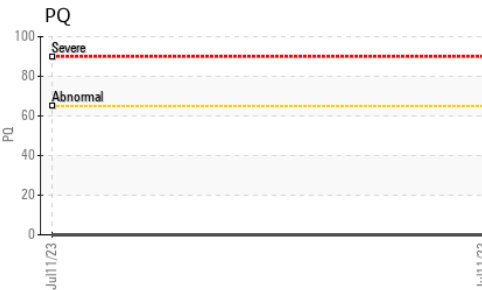
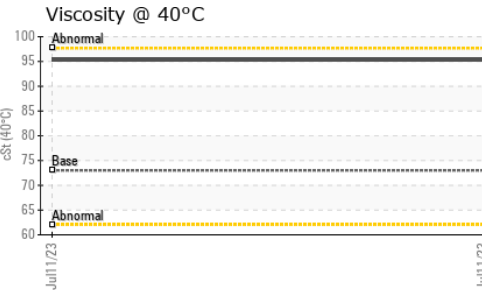
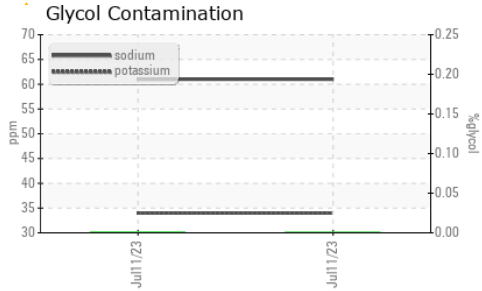
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	14	---	---
Sodium	ppm ASTM D5185(m)	61	---	---
Potassium	ppm ASTM D5185(m) >20	34	---	---
Glycol	% ASTM D7922*	0.0	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	1.4	---	---
Nitration	Abs/cm ASTM D7624* >20	11.2	---	---
Sulfation	Abs./1mm ASTM D7415* >30	25.7	---	---

OIL ANALYSIS REPORT

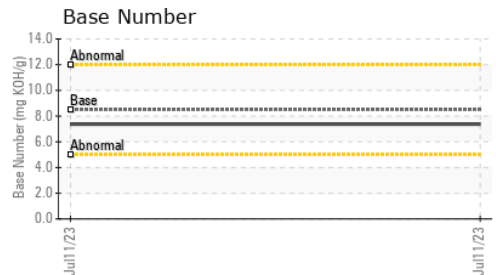
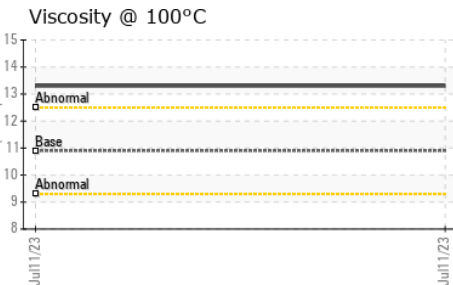
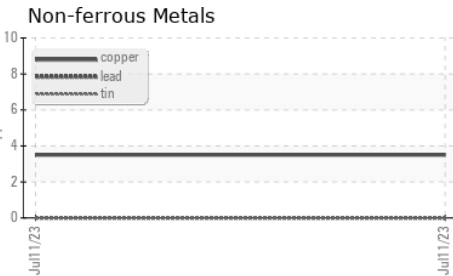
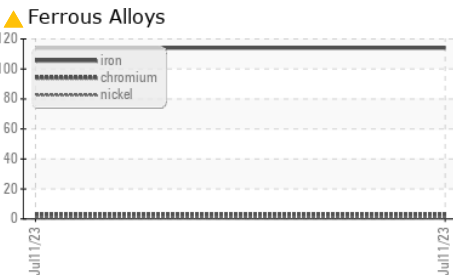


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	7.37	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---	---
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 @ 40°C	cSt	ASTM D7279(m)	73	95.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	13.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	138	138	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0020994
Lab Number : **02571397**
Unique Number : 5616448
Test Package : MOB 2 (Additional Tests: Glycol, KV40, PQ, PrtCount, VI, Visual)

Received : 21 Jul 2023
Diagnosed : 24 Jul 2023
Diagnostician : Kevin Marson

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.

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