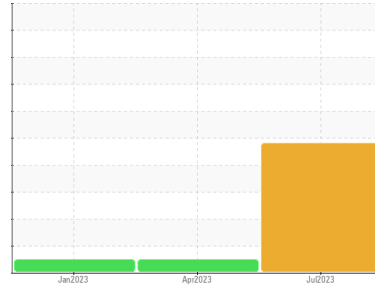




Machine Id  
**300-95**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

Nous vous recommandons de vérifier la source de la fuite de fluide de refroidissement. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons de rincer complètement le composant avant de le remplir l'huile. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

**Wear**

Les taux d'usure de tous les composants sont normaux.

**Contamination**

Le test de glycol est positif. Il y a une légère concentration de glycol dans l'huile.

**Fluid Condition**

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0070768</b>	PC0069013	PC0050277
Sample Date	Client Info		<b>06 Jul 2023</b>	07 Apr 2023	16 Jan 2023
Machine Age	hrs	Client Info	<b>2809</b>	2152	1225
Oil Age	hrs	Client Info	<b>200</b>	486	500
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0

**WEAR METALS**

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>22</b>	35	42
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	9	13
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	2
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	<b>1</b>	28	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>62</b>	63	63
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	450	<b>1022</b>	1159	1007
Calcium	ppm	ASTM D5185(m)	3000	<b>1066</b>	889	1159
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1091</b>	1088	1081
Zinc	ppm	ASTM D5185(m)	1350	<b>1237</b>	1263	1246
Sulfur	ppm	ASTM D5185(m)	4250	<b>2670</b>	2756	2478
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

**CONTAMINANTS**

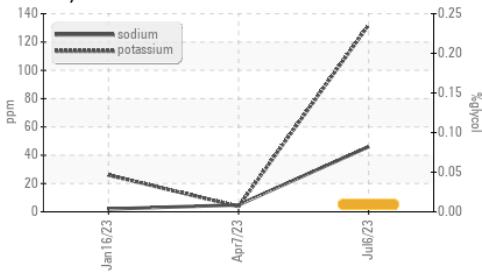
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	7	8
Sodium	ppm	ASTM D5185(m)	>158	<b>▲ 46</b>	5	2
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 132</b>	4	26
Glycol	%	ASTM D7922*		<b>▲ 0.016</b>	NEG	NEG

**INFRA-RED**

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.6</b>	0.8	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	11.2	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.0</b>	23.1	23.1

# OIL ANALYSIS REPORT

### ▲ Glycol Contamination



### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs./1mm	ASTM D7414* >25	<b>15.1</b>	19.8	16.2
Base Number (BN) mg KOH/g	ASTM D2896* 8.5	<b>8.93</b>	8.80	8.24

### VISUAL

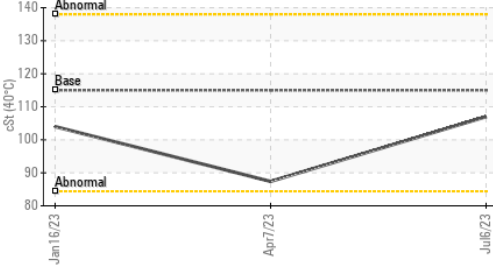
method	limit/base	current	history1	history2
Emulsified Water scalar	Visual* >0.2	<b>NEG</b>	NEG	NEG
Free Water scalar	Visual*	<b>NEG</b>	NEG	NEG

### FLUID PROPERTIES

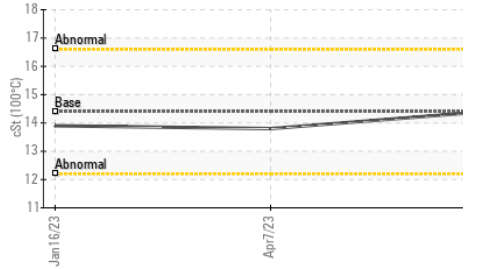
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m) 115	<b>107</b>	87.4	104
Visc @ 100°C cSt	ASTM D7279(m) 14.4	<b>14.4</b>	13.8	13.9
Viscosity Index (VI) Scale	ASTM D2270* 126	<b>137</b>	161	134

### GRAPHS

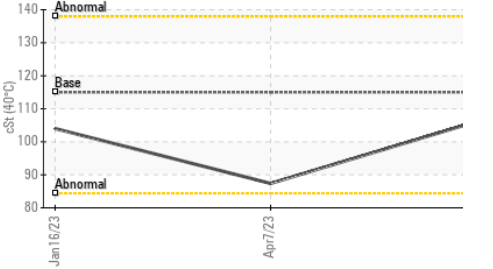
#### Viscosity @ 40°C



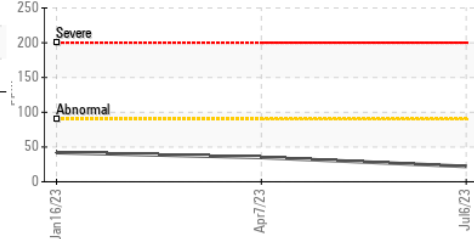
#### Viscosity @ 100°C



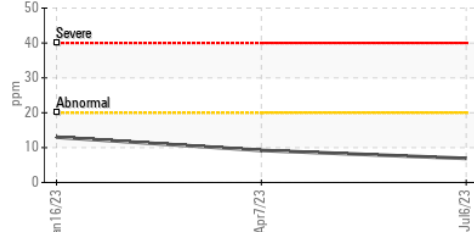
#### Viscosity @ 40°C



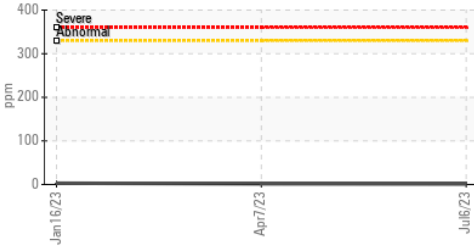
#### Iron (ppm)



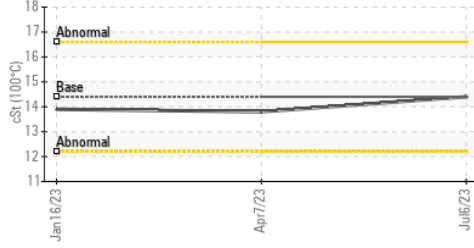
#### Aluminum (ppm)



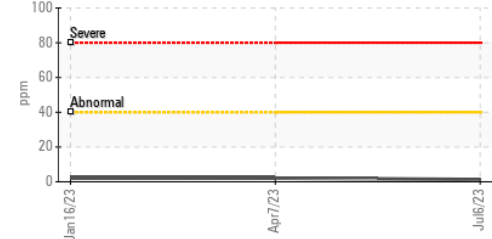
#### Copper (ppm)



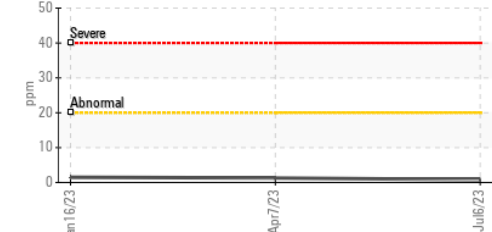
#### Viscosity @ 100°C



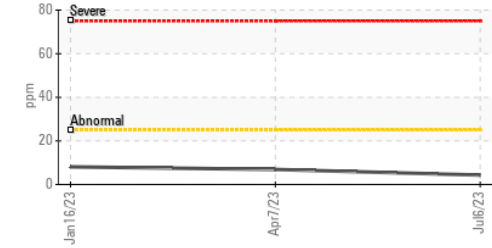
#### Lead (ppm)



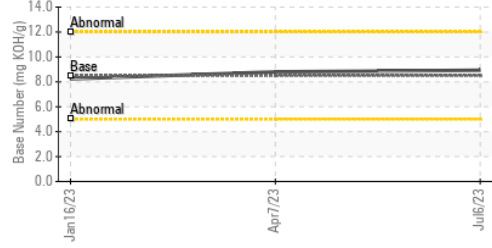
#### Chromium (ppm)



#### Silicon (ppm)



#### Base Number



ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0070768  
**Lab Number** : 02570526  
**Unique Number** : 5607572  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KV40, VI )

**HUILES DESROCHES INC.**  
 915 RUE PHILIPPE-PARADIS, LOCAL 115  
 QUEBEC, QC CA G1N 4E3  
 Contact: David Labrecque  
 david.labrecque@groupe-desroches.ca  
 T: (418)621-5150  
 F: (418)621-0822

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.