

Area
SHARP BUS LINES
Machine Id
INTERNATIONAL 1225
Component
Diesel Engine
Fluid
DISEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0081337	---	---
Sample Date	Client Info	13 Jul 2023	---	---
Machine Age	kms Client Info	256525	---	---
Oil Age	kms Client Info	11000	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >2.0	<1.0	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	63	---	---
Chromium	ppm ASTM D5185(m) >20	1	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	0	---	---
Aluminum	ppm ASTM D5185(m) >20	▲ 22	---	---
Lead	ppm ASTM D5185(m) >40	2	---	---
Copper	ppm ASTM D5185(m) >330	1	---	---
Tin	ppm ASTM D5185(m) >15	<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) 250	5	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	63	---	---
Manganese	ppm ASTM D5185(m)	<1	---	---
Magnesium	ppm ASTM D5185(m) 450	971	---	---
Calcium	ppm ASTM D5185(m) 3000	1020	---	---
Phosphorus	ppm ASTM D5185(m) 1150	1074	---	---
Zinc	ppm ASTM D5185(m) 1350	1170	---	---
Sulfur	ppm ASTM D5185(m) 4250	2532	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	5	---	---
Sodium	ppm ASTM D5185(m) >158	2	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---

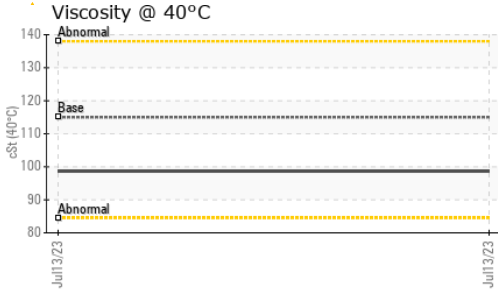
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.5	---	---
Nitration	Abs/cm ASTM D7624* >20	9.6	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	21.5	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	18.3	---	---

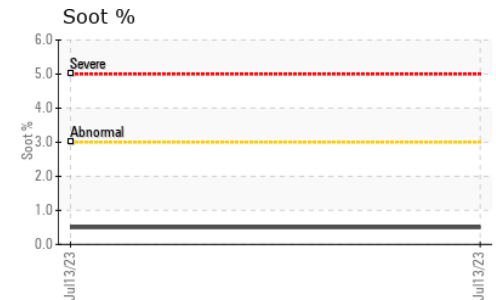
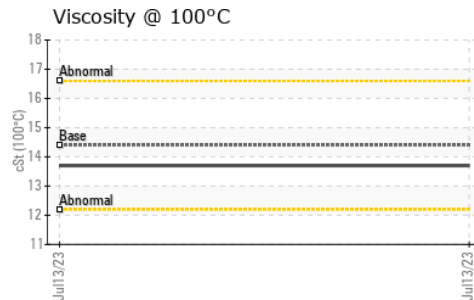
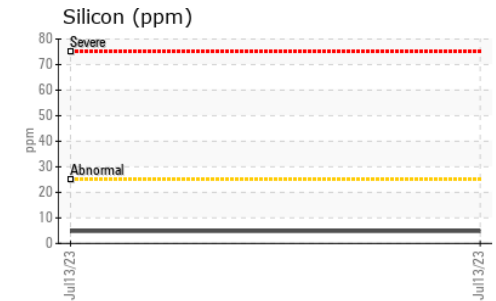
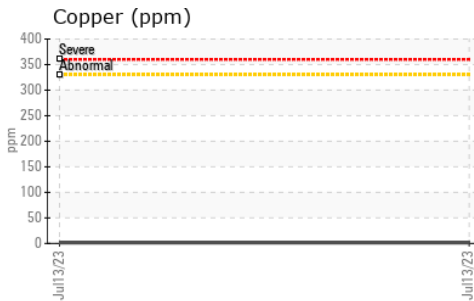
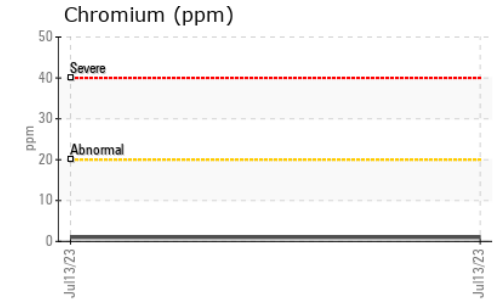
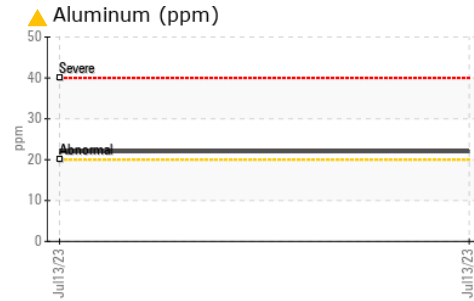
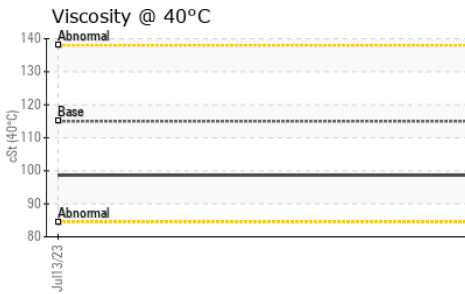
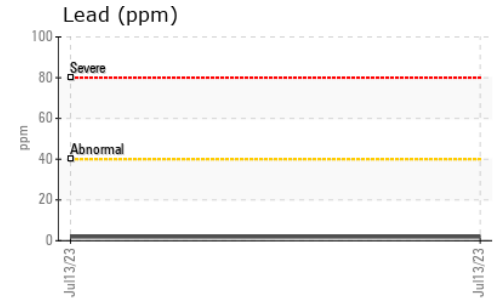
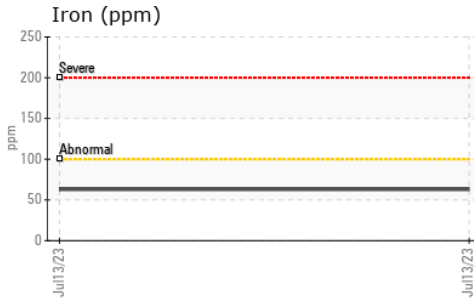
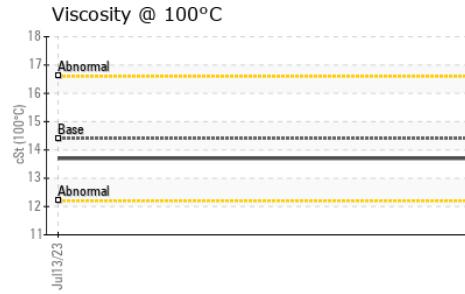
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
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)	115	98.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	139	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081337 **Received** : 04 Aug 2023
Lab Number : **02574158** **Diagnosed** : 04 Aug 2023
Unique Number : 5619209 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, 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.