



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOBEYS 323 [6100281799]

Machine Id
U971771G

Component
Diesel Engine

Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021288	WA0006774	WA0004175
Sample Date		Client Info		07 Jun 2024	20 Apr 2015	14 Feb 2013
Machine Age	hrs	Client Info		278	115	57
Oil Age	hrs	Client Info		0	26	0
Filter Age	hrs	Client Info		0	26	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	25	5	4
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	3	2	1
Lead	ppm	ASTM D5185(m)	>100	6	<1	1
Copper	ppm	ASTM D5185(m)	>60	76	6	12
Tin	ppm	ASTM D5185(m)	>5	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

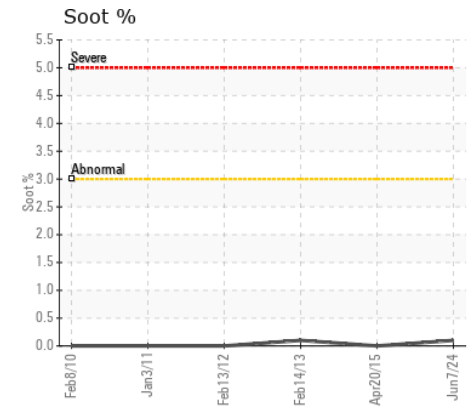
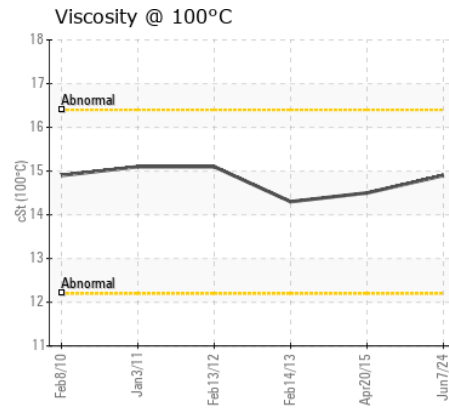
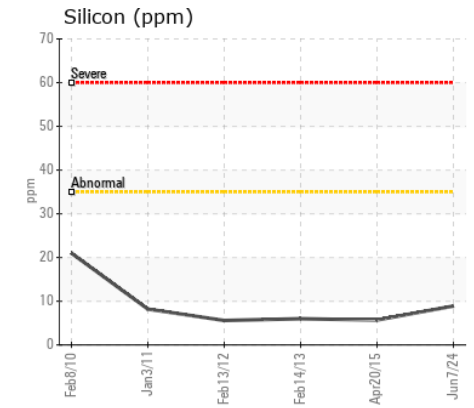
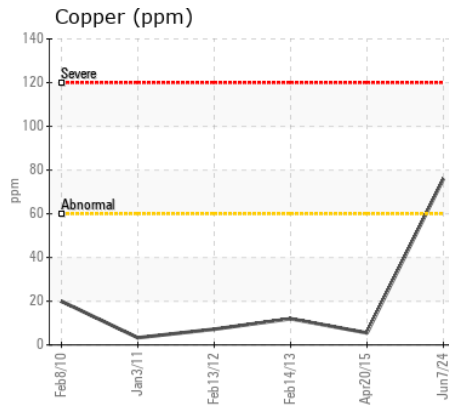
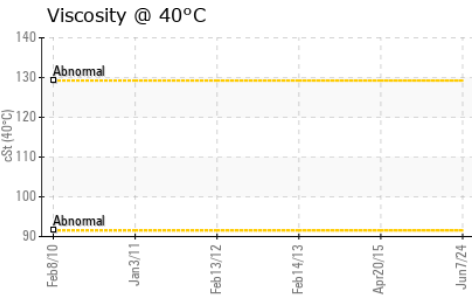
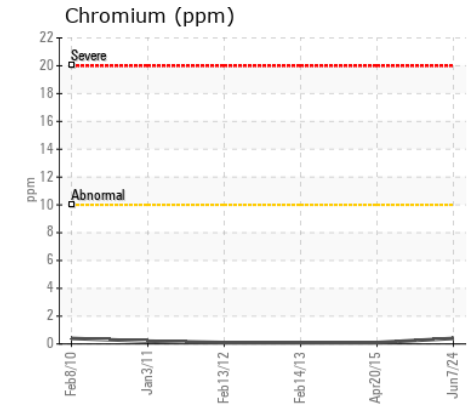
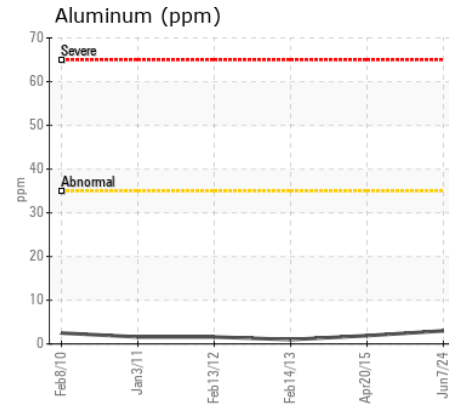
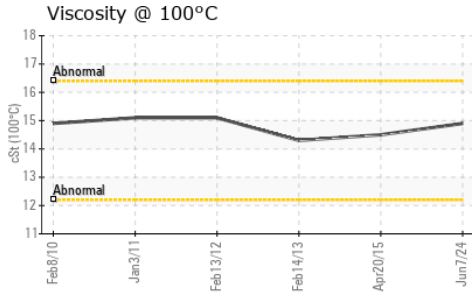
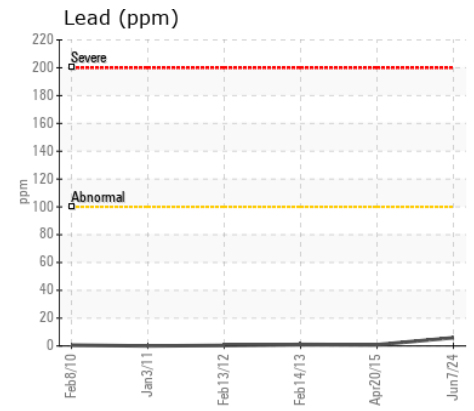
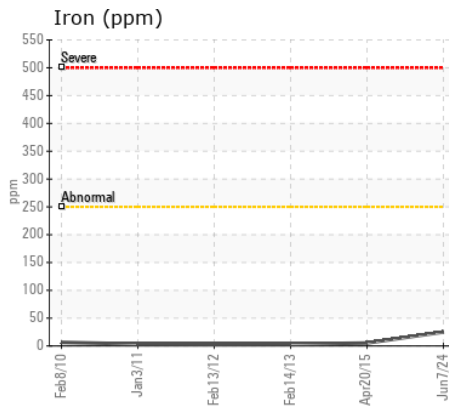
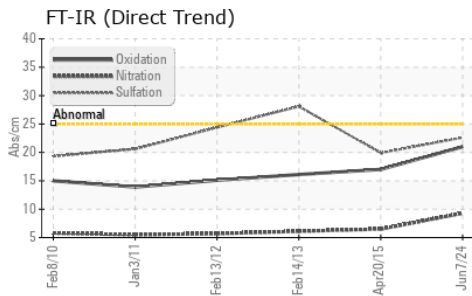
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	9	6	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.3	6.5	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	19.9	28.1
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>406	6	4	2
Boron	ppm	ASTM D5185(m)		42	54	44
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		2	4	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)		19	45	9
Calcium	ppm	ASTM D5185(m)		2685	2436	2138
Phosphorus	ppm	ASTM D5185(m)		963	1049	921
Zinc	ppm	ASTM D5185(m)		1263	1204	1141
Sulfur	ppm	ASTM D5185(m)		3439	3830	3791
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	17.0	16.1
Visc @ 40°C	cSt	ASTM D7279(m)		115	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	14.5	14.3
Viscosity Index (VI)	Scale	ASTM D2270*		133	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021288
Lab Number : 02642266
Unique Number : 5799805
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)
Received : 17 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Wes Davis

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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