



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DORMAN BASELINE SPS
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (15 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919642	WC100944	---
Sample Date		Client Info		10 Apr 2024	03 Apr 2018	---
Machine Age	hrs	Client Info		147	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	13	8	---
Chromium	ppm	ASTM D5185(m)	>6	1	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	2	---
Lead	ppm	ASTM D5185(m)	>95	0	1	---
Copper	ppm	ASTM D5185(m)	>85	4	2	---
Tin	ppm	ASTM D5185(m)	>9	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

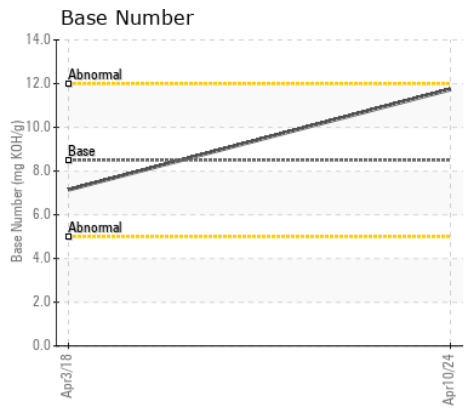
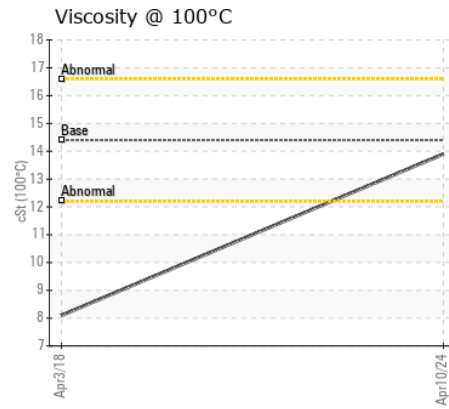
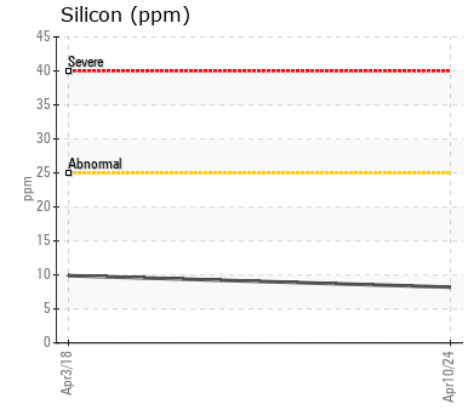
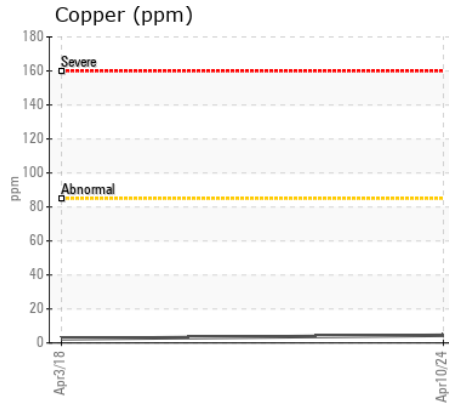
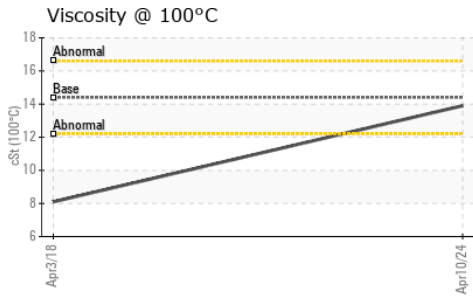
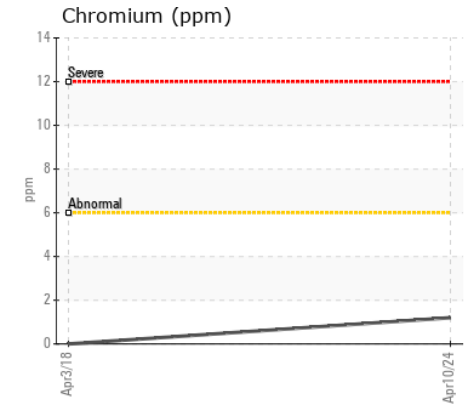
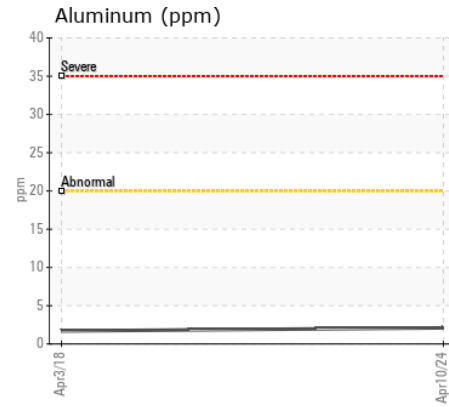
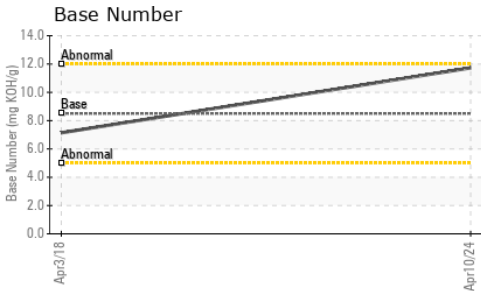
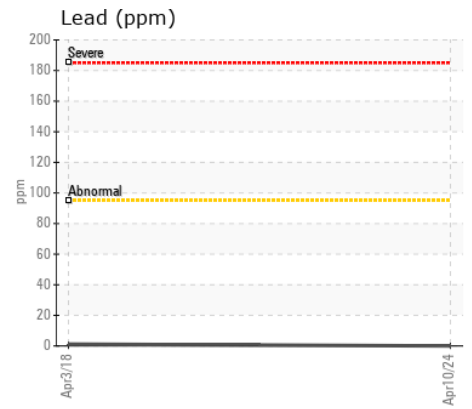
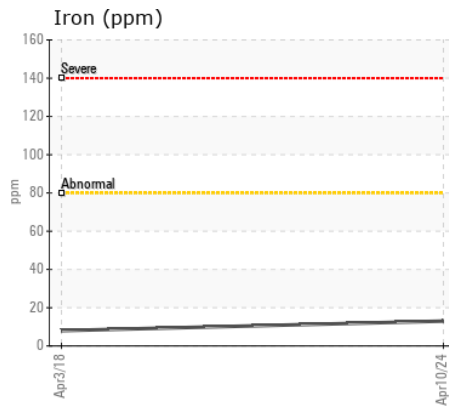
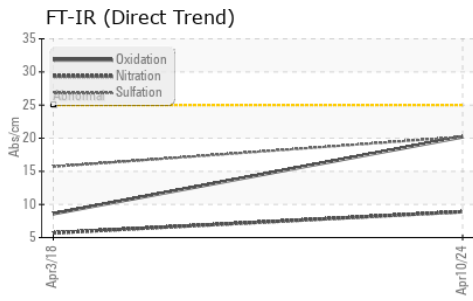
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	10	---
Potassium	ppm	ASTM D5185(m)	>20	<1	18	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.9	5.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	15.7	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>158	6	13	---
Boron	ppm	ASTM D5185(m)	250	41	57	---
Barium	ppm	ASTM D5185(m)	10	2	16	---
Molybdenum	ppm	ASTM D5185(m)	100	60	20	---
Manganese	ppm	ASTM D5185(m)		2	<1	---
Magnesium	ppm	ASTM D5185(m)	450	1047	37	---
Calcium	ppm	ASTM D5185(m)	3000	854	2261	---
Phosphorus	ppm	ASTM D5185(m)	1150	995	780	---
Zinc	ppm	ASTM D5185(m)	1350	1149	803	---
Sulfur	ppm	ASTM D5185(m)	4250	3219	3446	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	8.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	11.73	7.14	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	8.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0919642 **Received** : 15 Apr 2024
Lab Number : 02628658 **Tested** : 17 Apr 2024
Unique Number : 5761790 **Diagnosed** : 17 Apr 2024 - Kevin Marson
Test Package : MOB 2

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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.