



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SPARTAN 4037
Component
Rear Diesel Engine
Fluid
SUPREME 15W-40 4-STROKE MOTORCYCLE OIL (6 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895870	WC0895867	WC0777318
Sample Date		Client Info		16 Feb 2024	16 Feb 2024	03 Feb 2023
Machine Age	kms	Client Info		4127	1794	1674
Oil Age	kms	Client Info		323	120	28
Filter Age	kms	Client Info		323	120	28
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	---	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>75	4	7	4
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	2	1
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	5	3
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

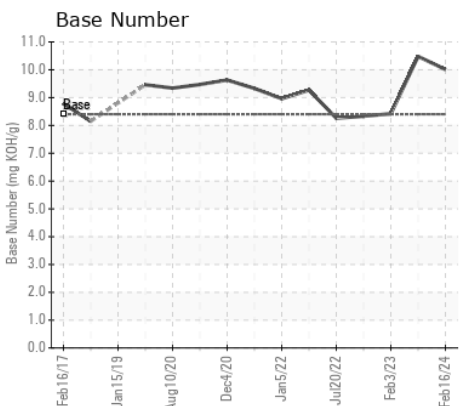
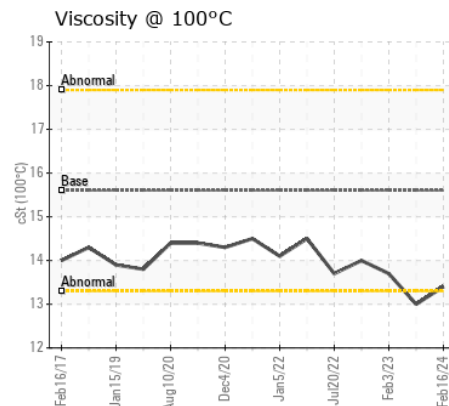
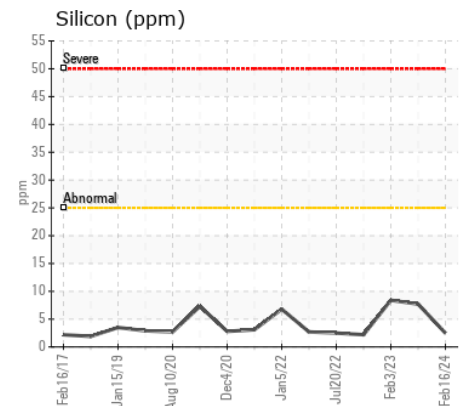
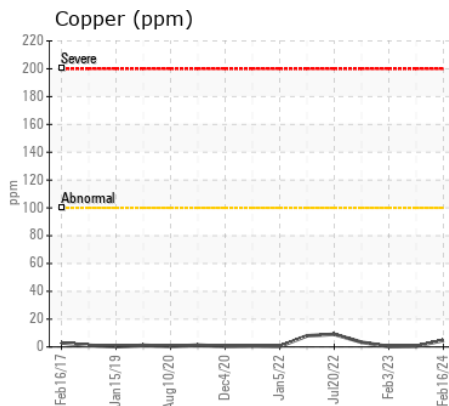
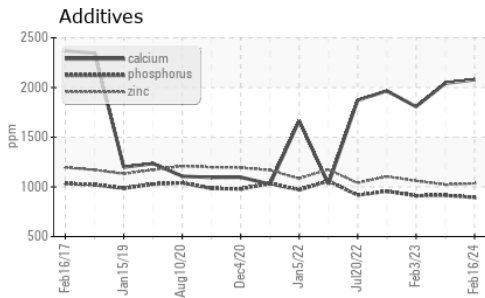
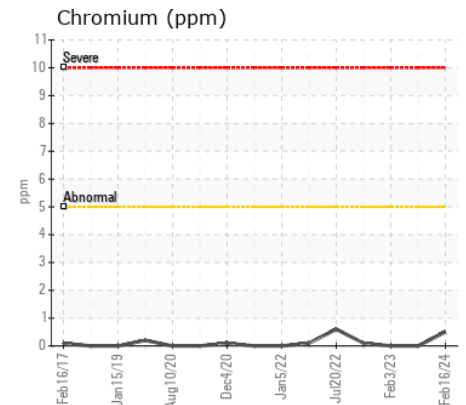
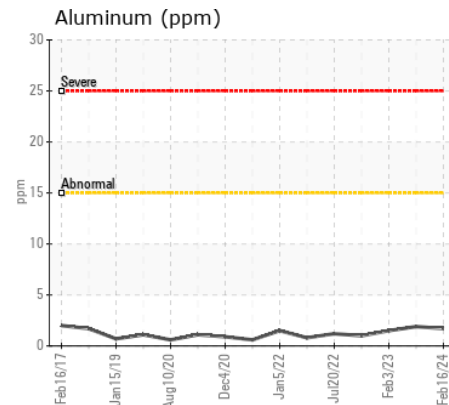
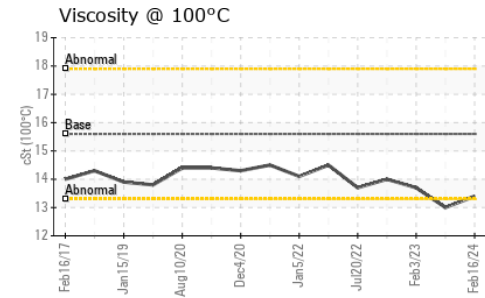
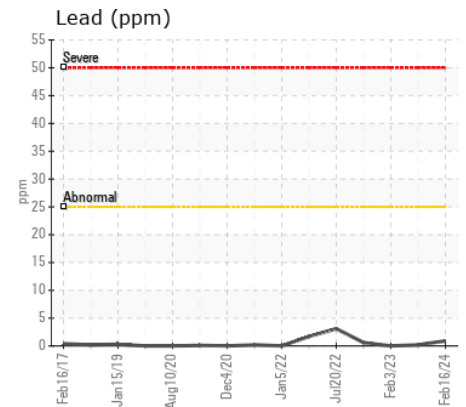
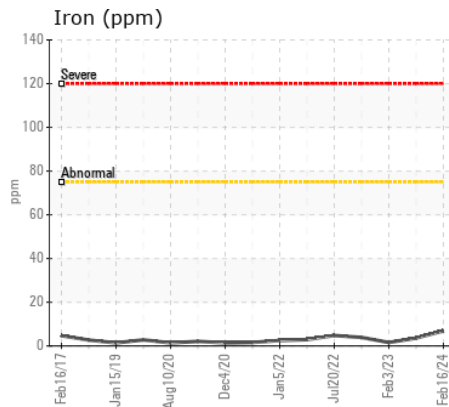
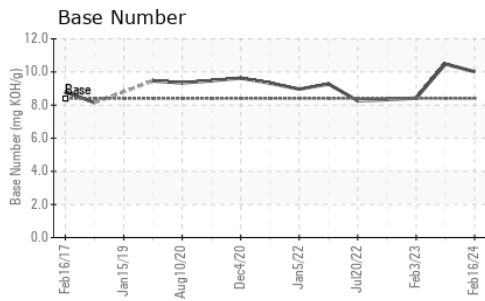
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	2	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	7.6	6.7	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	16.4	15.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
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)		2	<1	2
Boron	ppm	ASTM D5185(m)	1	16	6	6
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	14	▲ 16	21
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	145	▲ 182	295
Calcium	ppm	ASTM D5185(m)	1070	2078	▲ 2043	1807
Phosphorus	ppm	ASTM D5185(m)	1150	894	914	911
Zinc	ppm	ASTM D5185(m)	1270	1035	1022	1060
Sulfur	ppm	ASTM D5185(m)	2060	3087	3156	2881
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	10.2	10.0
Base Number (BN)	mg KOH/g	ASTM D2896*	8.4	10.01	10.48	8.42
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.4	▲ 13.0	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895870 **Received** : 27 Feb 2024
Lab Number : 02618256 **Tested** : 27 Feb 2024
Unique Number : 5735366 **Diagnosed** : 28 Feb 2024 - Kevin Marson
Test Package : MOB 2

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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