



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895867	WC0777318	WC0777321
Sample Date		Client Info		16 Feb 2024	03 Feb 2023	03 Feb 2023
Machine Age	kms	Client Info		1794	1674	3804
Oil Age	kms	Client Info		120	28	151
Filter Age	kms	Client Info		120	28	151
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

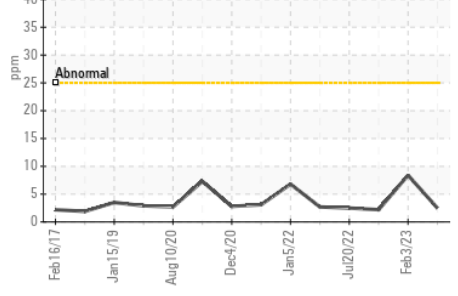
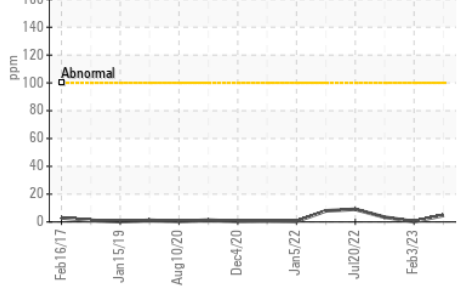
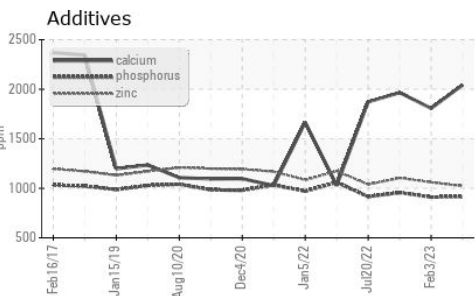
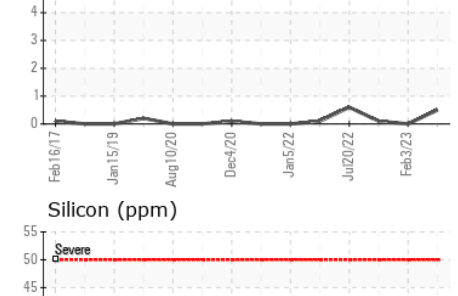
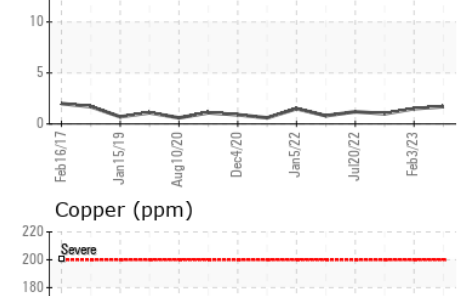
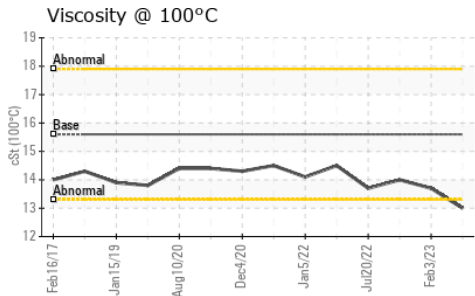
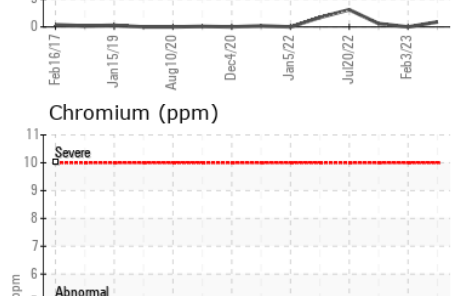
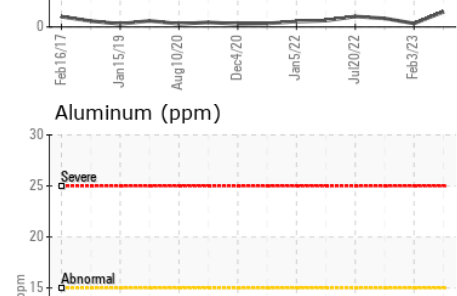
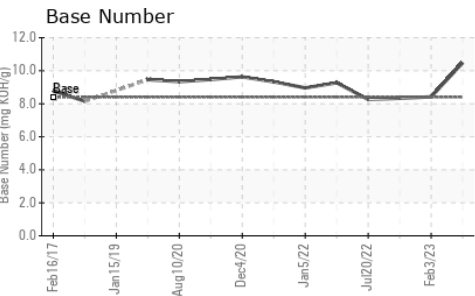
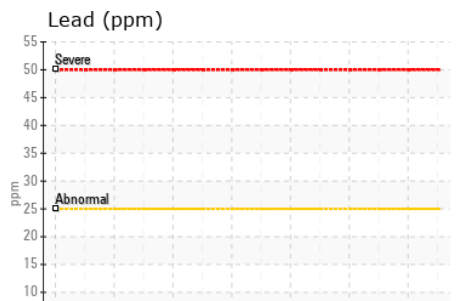
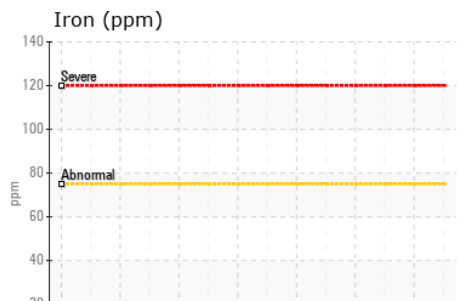
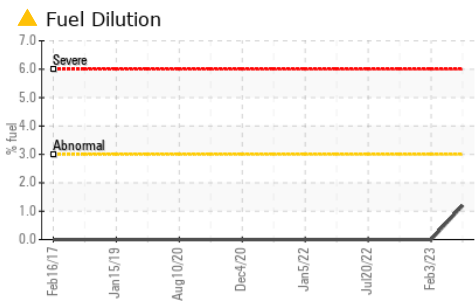
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	8
Potassium	ppm	ASTM D5185(m)	>20	2	0	1
Fuel	%	ASTM D7593*	>3.0	▲ 1.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.2	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.7	5.6	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.4	15.9	16.6
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)		<1	2	2
Boron	ppm	ASTM D5185(m)	1	6	6	87
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	16	21	16
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	182	295	123
Calcium	ppm	ASTM D5185(m)	1070	2043	1807	1966
Phosphorus	ppm	ASTM D5185(m)	1150	914	911	956
Zinc	ppm	ASTM D5185(m)	1270	1022	1060	1104
Sulfur	ppm	ASTM D5185(m)	2060	3156	2881	3119
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.2	10.0	12.0
Base Number (BN)	mg KOH/g	ASTM D2896*	8.4	10.48	8.42	8.33
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.0	13.7	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895867 **Received** : 27 Feb 2024
Lab Number : 02618255 **Tested** : 28 Feb 2024
Unique Number : 5735365 **Diagnosed** : 28 Feb 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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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.