



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
General Kinetics - G03000
 Machine Id
SPARTAN 4023
 Component
Gearbox
 Fluid
GEAR OIL SAE 80W90 (1 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

WEAR

Iron ppm levels are marginal. All other component wear rates are normal.

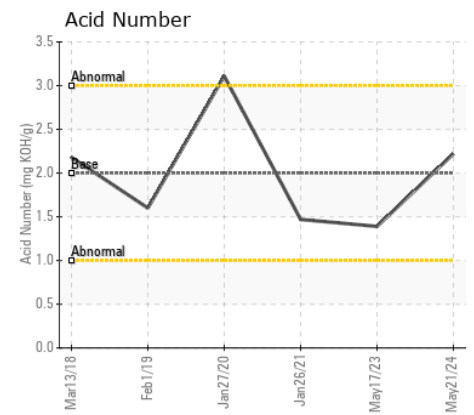
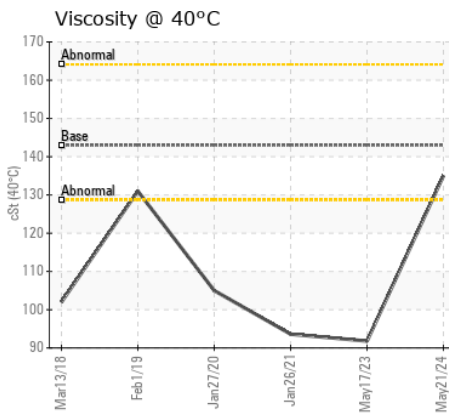
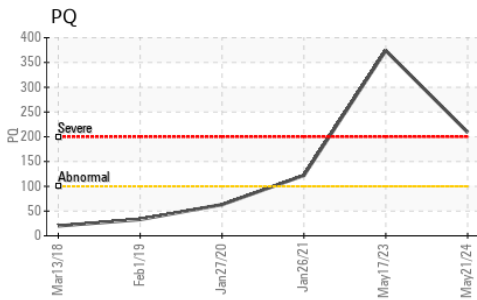
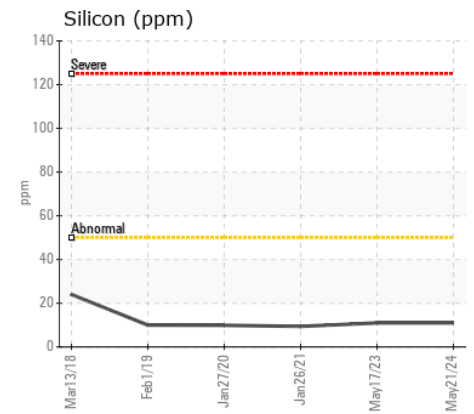
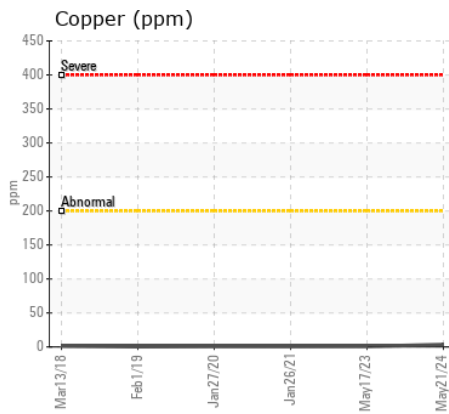
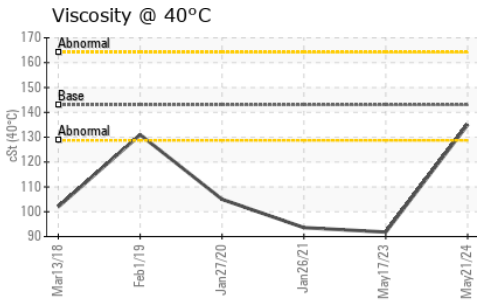
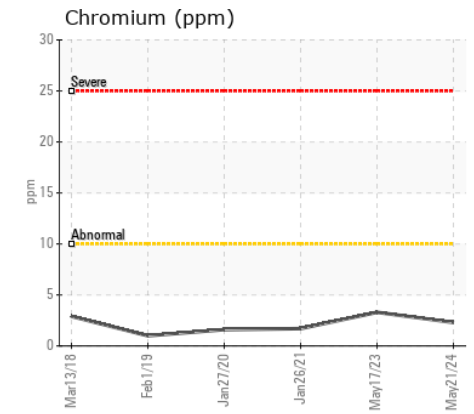
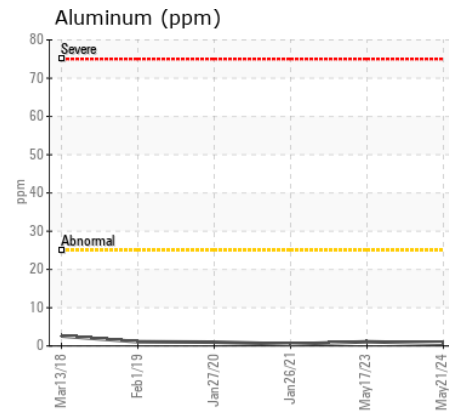
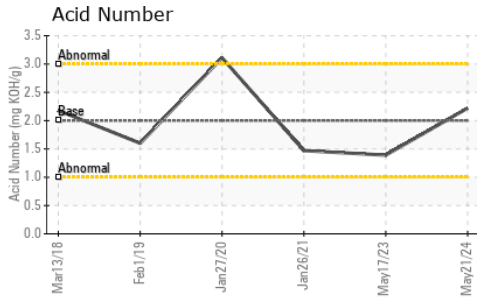
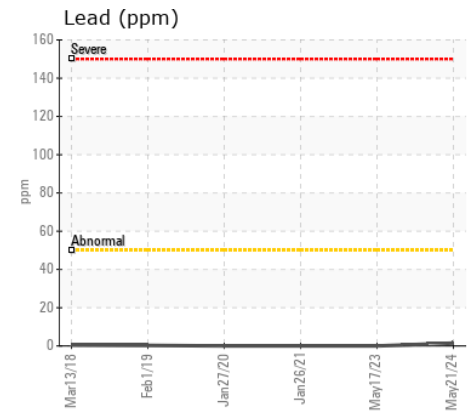
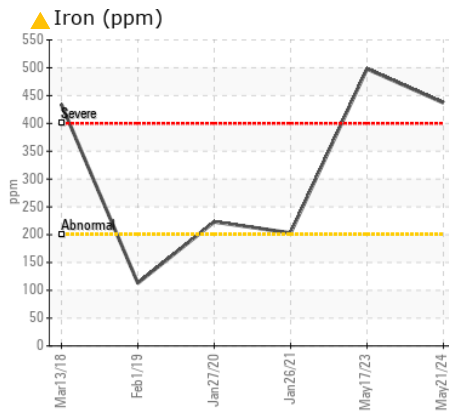
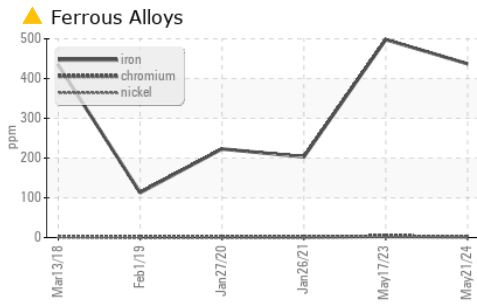
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895848	WC0777348	PC0033706
Sample Date		Client Info		21 May 2024	17 May 2023	26 Jan 2021
Machine Age	hrs	Client Info		1241	1190	1027
Oil Age	hrs	Client Info		51	71	57
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL
PQ		ASTM D8184*		209	▲ 374	122
Iron	ppm	ASTM D5185(m)	>200	▲ 437	▲ 498	203
Chromium	ppm	ASTM D5185(m)	>10	2	3	2
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	1	<1
Lead	ppm	ASTM D5185(m)	>50	2	0	0
Copper	ppm	ASTM D5185(m)	>200	4	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	11	11	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	NONE	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
Sodium	ppm	ASTM D5185(m)	>170	3	1	1
Boron	ppm	ASTM D5185(m)	400	28	63	90
Barium	ppm	ASTM D5185(m)	200	0	0	0
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	<1
Manganese	ppm	ASTM D5185(m)		5	5	2
Magnesium	ppm	ASTM D5185(m)	12	1	<1	<1
Calcium	ppm	ASTM D5185(m)	150	5	2	2
Phosphorus	ppm	ASTM D5185(m)	1650	424	618	563
Zinc	ppm	ASTM D5185(m)	125	4	2	2
Sulfur	ppm	ASTM D5185(m)	22500	18186	10056	10592
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	2.22	1.39	1.47
Visc @ 40°C	cSt	ASTM D7279(m)	143	135	91.8	93.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895848 **Received** : 27 May 2024
Lab Number : 02637740 **Tested** : 28 May 2024
Unique Number : 5786902 **Diagnosed** : 28 May 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ, TAN Man)

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.

City of Windsor
 2885 Kew Drive
 Windsor, ON
 CA N8T 3B7
 Contact: Brent Paisley
 bpaisley@citywindsor.ca
 T: (519)945-7395
 F: (519)948-9095