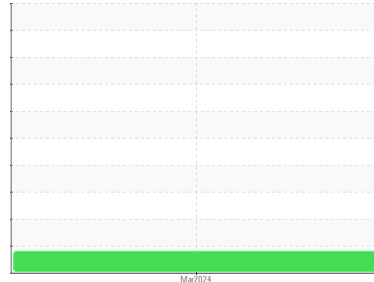




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
Special Metals - S01200
 Machine Id
FK404
 Component
Unknown Component
 Fluid
ESSO NUTO H ISO 46 (--- GAL)

DIAGNOSIS

▲ Recommendation

The sample submitted is 2 times dirtier than the ISO dirt count recommendation of 19/16/14.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Machine ID	Client Info	Virgin Nuto 46	---	---
Department	Client Info	Sales	---	---
Sent to WC	Client Info	03/13/2024	---	---
Sample Number	Client Info	E30001220	---	---
Sample Date	Client Info	13 Mar 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	0	---
Chromium	ppm	ASTM D5185(m)	0	---
Nickel	ppm	ASTM D5185(m)	<1	---
Titanium	ppm	ASTM D5185(m)	0	---
Silver	ppm	ASTM D5185(m)	0	---
Aluminum	ppm	ASTM D5185(m)	<1	---
Lead	ppm	ASTM D5185(m)	0	---
Copper	ppm	ASTM D5185(m)	0	---
Tin	ppm	ASTM D5185(m)	0	---
Antimony	ppm	ASTM D5185(m)	0	---
Vanadium	ppm	ASTM D5185(m)	0	---
Beryllium	ppm	ASTM D5185(m)	0	---
Cadmium	ppm	ASTM D5185(m)	0	---

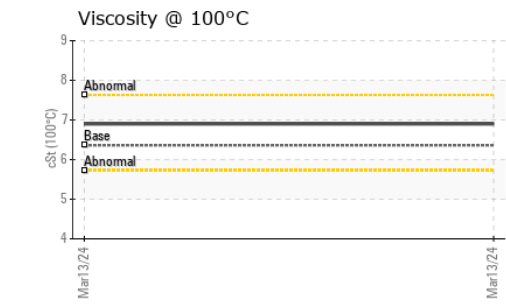
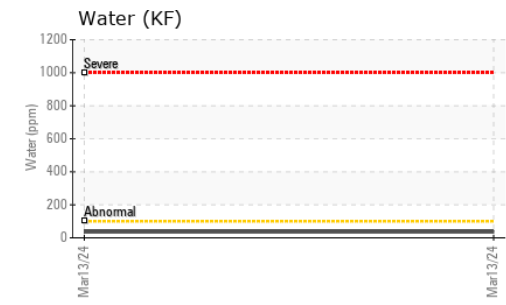
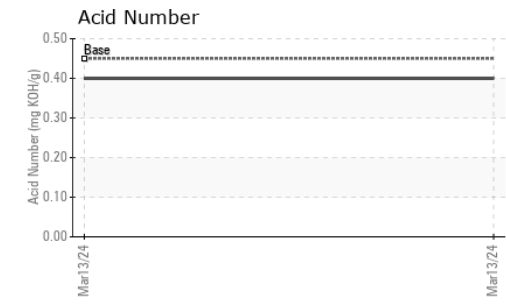
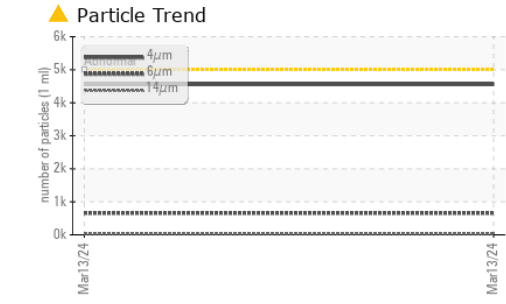
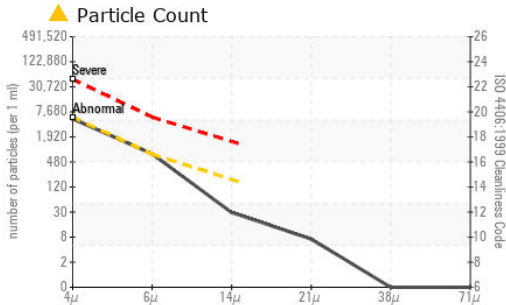
ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1
Barium	ppm	ASTM D5185(m)	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0
Manganese	ppm	ASTM D5185(m)	0	0
Magnesium	ppm	ASTM D5185(m)	5	2
Calcium	ppm	ASTM D5185(m)	50	52
Phosphorus	ppm	ASTM D5185(m)	330	323
Zinc	ppm	ASTM D5185(m)	410	407
Sulfur	ppm	ASTM D5185(m)	2700	1022
Lithium	ppm	ASTM D5185(m)		<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	0	---
Sodium	ppm	ASTM D5185(m)	0	---
Potassium	ppm	ASTM D5185(m)	>20	<1
Water	%	ASTM D6304*		0.003
ppm Water	ppm	ASTM D6304*		36

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001220 **Received** : 14 Mar 2024
Lab Number : **02622011** **Tested** : 15 Mar 2024
Unique Number : 5747130 **Diagnosed** : 15 Mar 2024 - Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-905-372-2251.
 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.

Environmental 360 Solutions Ltd.
 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	4554	---	---
Particles >6µm	ASTM D7647	>640	▲ 658	---	---
Particles >14µm	ASTM D7647	>160	26	---	---
Particles >21µm	ASTM D7647	>40	6	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 19/17/12	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.45	0.40	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	42.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.36	6.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		118	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color					no image	no image
Bottom					no image	no image