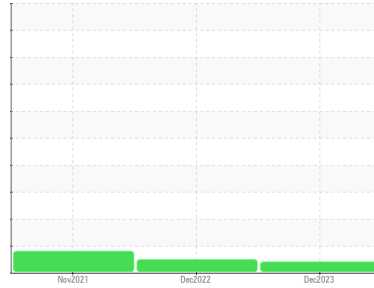




OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Machine Id
381-0031-1

Component
Gearbox

Fluid
ESSO SPARTAN EP 220 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

Lithium (Li) level abnormal at 13ppm., indicates possible grease contamination.

▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0887208	WC0646880	WC0646882
Sample Date	Client Info		09 Dec 2023	11 Dec 2022	21 Nov 2021
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	106	59	70
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	<1
Lead	ppm	ASTM D5185(m)	>100	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>200	8	6	7
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

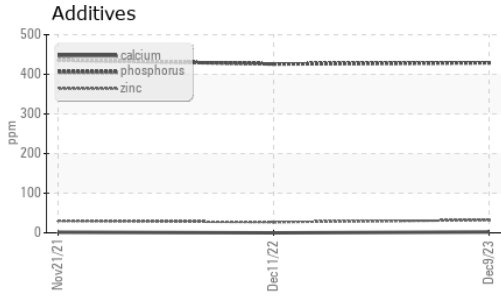
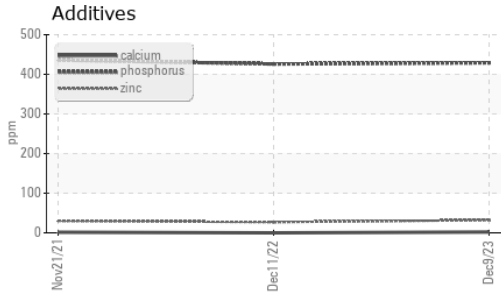
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	.5	<1	2	2
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Calcium	ppm	ASTM D5185(m)	1.7	2	0	2
Phosphorus	ppm	ASTM D5185(m)	250	429	426	436
Zinc	ppm	ASTM D5185(m)	.3	32	27	30
Sulfur	ppm	ASTM D5185(m)		2373	2148	2270
Lithium	ppm	ASTM D5185(m)		▲ 13	7	▲ 13

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	27	26	23
Sodium	ppm	ASTM D5185(m)		1	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1



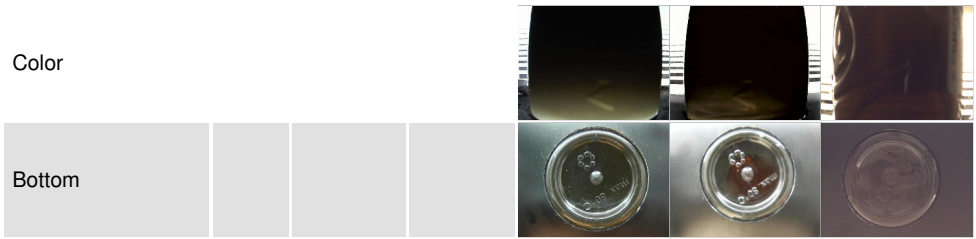
OIL ANALYSIS REPORT



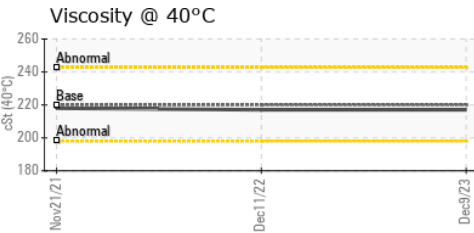
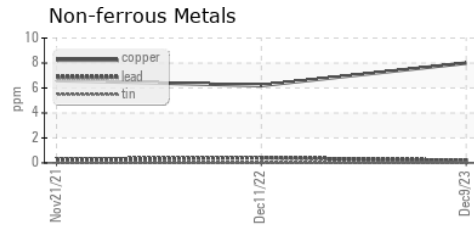
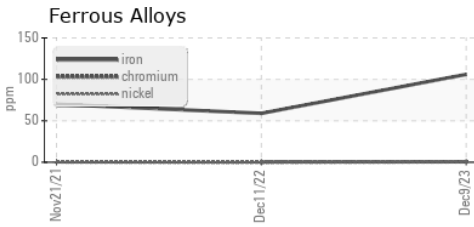
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE NONE
Silt	scalar	Visual*	NONE	NONE	NONE NONE
Debris	scalar	Visual*	NONE	NONE	NONE NONE
Sand/Dirt	scalar	Visual*	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
Free Water	scalar	Visual*		NEG	NEG NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	217	217 ▲ 218

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0887208
Lab Number : 02605120
Unique Number : 5698205
Test Package : IND 1

Continuous Colour Coat Limited
 1430 Martin Grove Rd
 Rexdale, ON
 CA M9W 4Y1
 Contact: Parminder Singh
 parminder.singh@materialsciencescorp.com
 T: (416)743-7980
 F: (416)743-7138

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.