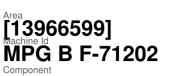


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Unknown Component {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample.

Wear

Component wear rates appear to be normal (unconfirmed).

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the sample is acceptable for the time in service (unconfirmed).

			Fe	b2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC		
Sample Date		Client Info		17 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)		0		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
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)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		59		
Phosphorus	ppm	ASTM D5185(m)		337		
Zinc	ppm	ASTM D5185(m)		430		
Sulfur	ppm	ASTM D5185(m)		847		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	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		



OIL ANALYSIS REPORT

FLUID CLEANLINESS method

Particles >4µm Particles >6µm

Particles >14µm

Particles >21µm

ASTM D7647

ASTM D7647 >1300

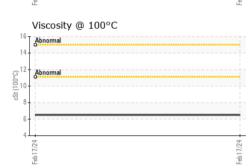
ASTM D7647 >160

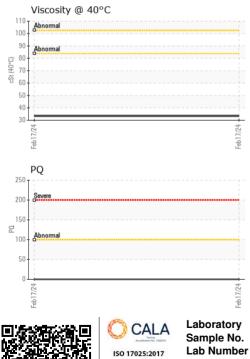
ASTM D7647 >40

>5000

	Particl	e Cou	nt			
^{491,520} T						T ²⁶
122,880	evere					-24
00 700 9						-22 8
30,720 7,680 30,720 7,680 30,720 1,920 480 480 480 480 480 480 480 480 480 48	bnormal					-20 06:1999 Cleanliness Code -14 12 -12 -12 -10
8 1,920						-18 199
-10 480 ·	-					16 0
t 120-						-14
-06 ge			1			-12 8
-8 III				~		10 8
2-						-8
0. 4µ		6µ	14µ	21µ	38µ	71µ
	Acid N	lumbe	r			
0.50 T						
⊡0 40						
HOX						
(b) 0.40 - (b) HOX (b) 0.30 - mp 0.20 -						
per						
_ <u></u> ⊑ 0.20						







	Feb17/24	
	12	
	æ	
OALA	Laboratory	: WearCheck - C8-117
	Laboratory	

Accredited Laboratory

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Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.42		
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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		33.3		
Visc @ 100°C	cSt	ASTM D7279(m)		6.5		
Viscosity Index (VI)	Scale	ASTM D2270*		152		
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

1418

399

19

4

75 Appleby Line, Burlington, ON L7L 5H9 Sample No. : PC Received :01 Apr 2024 Lab Number : 02625689 Tested : 02 Apr 2024 Unique Number : 5750808 Diagnosed : 03 Apr 2024 - Kevin Marson Test Package : MAR 2 (Additional Tests: KV100, PQ, PRTCOUNT, VI) 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.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John`s, NL CA A1C 1B6 Contact: Josh Hynes joshynes@suncor.com T: (709)778-3575 F: (709)724-2835

Contact/Location: Josh Hynes - TERHAM