

OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id OR1974

Hydraulic System

CAT TO-4 SAE 10W30 (48 LTR

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

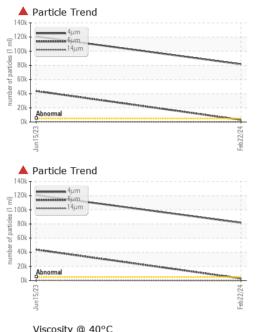
The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

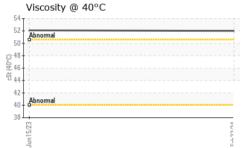
		-					
48 LTR)			Jun2023	Feb2024			
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0113369	GFL0056412		
Sample Date		Client Info		22 Feb 2024	15 Jun 2023		
lachine Age	hrs	Client Info		20139	20139		
)il Age	hrs	Client Info		500	1000		
il Changed		Client Info		Filtered	Not Changd		
Sample Status				SEVERE	SEVERE		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2	
Vater		WC Method	>0.1	NEG	NEG		
WEAR METAI	_S	method	limit/base	current	history1	history2	
on	ppm	ASTM D5185(m)	>20	12	13		
Chromium	ppm	ASTM D5185(m)	>10	2	3		
ickel	ppm	ASTM D5185(m)	>10	<1	0		
itanium	ppm	ASTM D5185(m)		0	<1		
ilver	ppm	ASTM D5185(m)		0	<1		
luminum	ppm	ASTM D5185(m)	>10	1	2		
ead	ppm	ASTM D5185(m)	>10	- <1	- 1		
opper	ppm	ASTM D5185(m)		5	5		
in	ppm	ASTM D5185(m)	>10	0	0		
ntimony	ppm	ASTM D5185(m)	210	0	0		
anadium	ppm	ASTM D5185(m)		0	0		
eryllium	ppm	ASTM D5185(m)		0	0		
admium	ppm	ASTM D5185(m)		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		31	35		
arium	ppm	ASTM D5185(m)		0	0		
		()		22	23		
lolybdenum	ppm	ASTM D5185(m)					
langanese	ppm	ASTM D5185(m)		0	<1		
lagnesium	ppm	ASTM D5185(m)		279	289		
alcium	ppm	ASTM D5185(m)		1078	1099		
hosphorus	ppm	ASTM D5185(m)		820	899		
inc	ppm	ASTM D5185(m)		965	996		
ulfur	ppm	ASTM D5185(m)		2096	2181		
ithium	ppm	ASTM D5185(m)		<1	<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	5	7		
odium	ppm	ASTM D5185(m)		1	2		
otassium	ppm	ASTM D5185(m)	>20	0	<1		
FLUID CLEAN		mathad	limit/base	current	history1	history2	
	LINESS	method	iiiiiii/base				
	LINESS	ASTM D7647	>5000	81605	▲ 120714		
articles >4µm	LINESS				▲ 120714▲ 43713		
articles >4μm articles >6μm	LINESS	ASTM D7647	>5000	& 81605			
articles >4μm articles >6μm articles >14μm	LINESS	ASTM D7647 ASTM D7647	>5000 >1300 >160	▲ 81605 ▲ 3035	4 3713		
articles >4μm articles >6μm articles >14μm articles >21μm articles >38μm	LINESS	ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160	 ▲ 81605 ▲ 3035 5 	▲ 43713▲ 413		
Particles >4μm Particles >6μm Particles >14μm Particles >21μm	LINESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	 81605 3035 5 2 	 ▲ 43713 ▲ 413 33 		

Submitted By: Charles Bergeron



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Ddor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D7279(m)		52.0	52.1	
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				ć		no image
Bottom						no image
GRAPHS						
Non-ferrous Metal	5		122,880 30,720 7,680 45272qJ 1,920 380pted 10 30 30 30 30 30 30 30 30 30 30 30 30 30		14μ 21μ	
earCheck - C8-117	5 Appleh	/ Line, Burlin	+7272799	. 5H9 GFL En t	vironmental - 720 - L	afleche - Land
FL0113369 2 <mark>623757</mark> 748876	Recei Teste Diagr	ived : 21 d : 22	Mar 2024 2 Mar 2024 2 Mar 2024 - W		17125 L Moc	afleche Roa ose Creek, C CA K0C 1V

Test Package : MOB 1 (Additional Tests: PrtCount) 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.

Laboratory

Sample No.

Lab Number

Unique Number :

Contact: Charles Bergeron cbergeron@gflenv.com T: (613)538-4853 F:

CALA

ISO 17025:2017

Accredited Laboratory