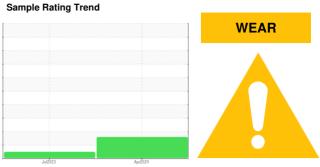


OIL ANALYSIS REPORT





DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. All other component wear rates are normal.

Contamination

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

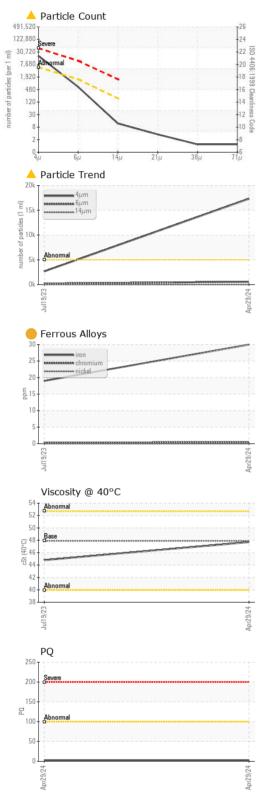
Fluid Condition

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

WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 2 ciron ppm ASTM D5185(m) >20 30 19 Chromium ppm ASTM D5185(m) >10 <1 <1 Nickel ppm ASTM D5185(m) >10 0 0 Fitanium ppm ASTM D5185(m) >10 0 0 Silver ppm ASTM D5185(m) >10 4 2 Actual minum ppm ASTM D5185(m) >10 0 <1 Copper ppm ASTM D5185(m) >10 0 <1 Tin ppm ASTM D5185(m) >10 0 Antimony ppm ASTM D5185(m) 0 0 Antimony ppm ASTM D5185(m) 0 0	EASON HTDRAULIC OIL (04 LIN)		Jul2023	Apr2024		
Sample Date Client Info 29 Apr 2024 19 Jul 2023	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		GFL0113411	GFL0087347	
Dil Age	Sample Date		Client Info		29 Apr 2024	19 Jul 2023	
Dil Changed Cilient Info Not Changed ABNORMAL ABNORMAL	Machine Age	nrs	Client Info		8207	6950	
CONTAMINATION method limit/base current history1 history2	Oil Age	nrs	Client Info		1500	1000	
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 2 Chromium ppm ASTM D8185(m) >10 <1 <1 Chromium ppm ASTM D8185(m) >10 <1 <1 Chromium ppm ASTM D8185(m) >10 0 0 Chromium ppm ASTM D8185(m) >10 0 0 Rickel ppm ASTM D8185(m) >10 0 0 Rilver ppm ASTM D8185(m) >10 0 <1 Silver ppm ASTM D8185(m) >10 0 <1 Aluminum ppm ASTM D8185(m) >10 0 <1 <td>Oil Changed</td> <td></td> <td>Client Info</td> <td></td> <td>Not Changd</td> <td>Not Changd</td> <td></td>	Oil Changed		Client Info		Not Changd	Not Changd	
Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 2 Iron ppm ASTM D8185(m) >20 30 19 Chromium ppm ASTM D8185(m) >10 <1 <1 Nickel ppm ASTM D8185(m) >10 0 0 Fitanium ppm ASTM D8185(m) >10 0 0 ASTM D8185(m) >10 4 2 ASTM D8185(m) >10 4 2 Copper ppm ASTM D8185(m) >10 0 <1 Copper ppm ASTM D8185(m) >10 0 <1 Ciniper ppm ASTM D8185(m) 0 0 0 Astmitimony ppm ASTM D8185(m)	Sample Status				ABNORMAL	NORMAL	
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* 2 iron ppm ASTM D5185(m) >20 30 19 Chromium ppm ASTM D5185(m) >10 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
PQ ASTM D8184* 2	Water		WC Method	>0.1	NEG	NEG	
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >10 <1 <1	PQ		ASTM D8184*		2		
ASTM D5185(m) D	ron	opm	ASTM D5185(m)	>20	30	19	
Standard	Chromium p	opm	ASTM D5185(m)	>10	<1	<1	
Description	Nickel p	opm	ASTM D5185(m)	>10	0	0	
Aluminum	Γitanium β	opm	ASTM D5185(m)		<1	<1	
Part Part	Silver	opm	ASTM D5185(m)		0	0	
Copper	Aluminum p	opm	ASTM D5185(m)	>10	4	2	
Antimony	_ead p	opm	ASTM D5185(m)	>10	0	<1	
Antimony ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 2 1 Barium ppm ASTM D5185(m) 0 0 0 Wholybdenum ppm ASTM D5185(m) 0 0 0 Whanganese ppm ASTM D5185(m) 1 <1 Whanganese ppm ASTM D5185(m) 0 9 6 Calcium ppm ASTM D5185(m) 100 633 357 Chosphorus ppm ASTM D5185(m) 100 633 357 Chosphorus ppm ASTM D5185(m) 670 780 784 Cinc ppm ASTM D5185(m) 850 950 928 Callfur ppm ASTM D5185(m) 1600 2278 1984 Callfur ppm ASTM D5185(m) 1600 2278 1984 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 history2 Contamination ppm ASTM D5185(m) >20 13 8 CONTAMINANTS method limit/base current history1 history2 Contamination ppm ASTM D5185(m) >20 13 8 CONTAMINANTS method limit/base current history1 history2	Copper p	opm	ASTM D5185(m)	>75	5	4	
Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 2 1 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 <1	Γin μ	opm	ASTM D5185(m)	>10	0	0	
Description	Antimony p	opm	ASTM D5185(m)		0	0	
Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 2 1 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 <1	Vanadium p	opm	ASTM D5185(m)		0	0	
ADDITIVES	Beryllium p	opm	ASTM D5185(m)		0	0	
Soron ppm ASTM D5185(m) 0 2 1	Cadmium p	opm	ASTM D5185(m)		0	0	
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 <1 Manganese ppm ASTM D5185(m) 1 <1 <1 Magnesium ppm ASTM D5185(m) 0 9 6 Calcium ppm ASTM D5185(m) 100 633 357 Phosphorus ppm ASTM D5185(m) 670 780 784 Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 13 8 Godium ppm ASTM D5185(m) 20 13 8	Boron p	opm	ASTM D5185(m)	0	2	1	
Manganese ppm ASTM D5185(m) 1 <1 <1 Magnesium ppm ASTM D5185(m) 0 9 6 Calcium ppm ASTM D5185(m) 100 633 357 Phosphorus ppm ASTM D5185(m) 670 780 784 Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1	Barium p	opm	ASTM D5185(m)	0	0	0	
Magnesium ppm ASTM D5185(m) 0 9 6 Calcium ppm ASTM D5185(m) 100 633 357 Phosphorus ppm ASTM D5185(m) 670 780 784 Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1	Molybdenum p	opm	ASTM D5185(m)	0	0	<1	
Calcium ppm ASTM D5185(m) 1 0 0 633 357 Phosphorus ppm ASTM D5185(m) 670 780 784 Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1	Manganese p	opm	ASTM D5185(m)	1	<1	<1	
Phosphorus ppm ASTM D5185(m) 670 780 784 Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 13 8 Sodium ppm ASTM D5185(m) 2 1	Magnesium p	opm	ASTM D5185(m)	0	9	6	
Zinc ppm ASTM D5185(m) 850 950 928 Sulfur ppm ASTM D5185(m) 1600 2278 1984 Lithium ppm ASTM D5185(m) <1	Calcium	opm	ASTM D5185(m)	100	633	357	
Sulfur ppm ASTM D5185(m) 1 600 2278 1984 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 13 8 Sodium ppm ASTM D5185(m) 2 1	Phosphorus p	opm	, ,	670	780	784	
Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 13 8 Sodium ppm ASTM D5185(m) 2 1		opm		850	950	928	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >20 13 8 Sodium ppm ASTM D5185(m) 2 1	Sulfur p	opm	ASTM D5185(m)	1600	2278	1984	
Silicon ppm ASTM D5185(m) >20 13 8 Sodium ppm ASTM D5185(m) 2 1	Lithium p	opm	ASTM D5185(m)		<1	<1	
Sodium ppm ASTM D5185(m) 2 1	CONTAMINANT	S	method	limit/base	current	history1	history2
,.	Silicon	opm	ASTM D5185(m)	>20	13	8	
Potassium ppm ASTM D5185(m) >20 3 2	Sodium p	opm	ASTM D5185(m)		2	1	
	Potassium p	opm	ASTM D5185(m)	>20	3	2	



OIL ANALYSIS REPORT



FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 17316	2645	
Particles >6µm		ASTM D7647	>1300	568	197	
Particles >14μm		ASTM D7647	>160	10	11	
Particles >21µm		ASTM D7647	>40	3	3	
Particles >38μm		ASTM D7647	>10	1	0	
Particles >71μm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/16/10	19/15/11	
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	
Odor	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
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	47.7	44.8	
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						no image
Bottom						no image





Laboratory

Sample No. Lab Number : 02634364 Unique Number : 5775517

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill

: GFL0113411

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received **Tested**

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

: 09 May 2024 : 10 May 2024 Diagnosed Test Package : MOB 1 (Additional Tests: PQ, PrtCount)

: 10 May 2024 - Kevin Marson

17125 Lafleche Road, Moose Creek, ON CA K0C 1W0 Contact: Charles Bergeron cbergeron@gflenv.com

T: (613)538-4853