MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
EX0354
Component
Hydraulic System
Fluid
CASE CASE IH HY-TRAN ULTRA (220 LTR)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. Oil and filter change at the time of sampling has been noted. 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. Confirm the source of the lubricant being utilized for top-up/fill. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF). Resample in 30-45 days to monitor this situation. (Customer Sample Comment: System capacity is 220L. Refill capacity is 150L. Oil sampled was CASE HYtran ultra. Tank was emptied and refilled with Hydrex aw46)

WEAR

Iron ppm levels are severe. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

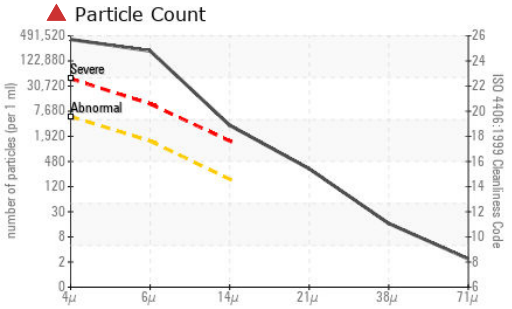
CONTAMINATION

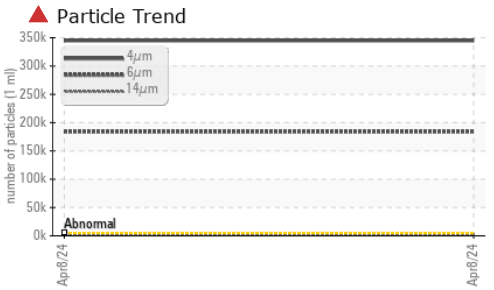
There is a high amount of particulates (2 to 100 microns in size) present in the oil.

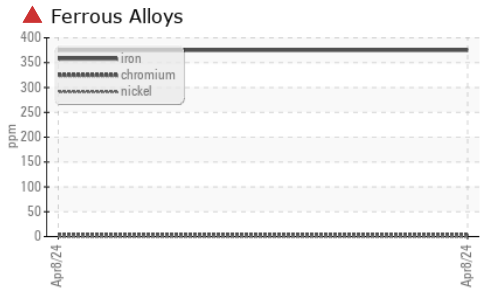
FLUID CONDITION

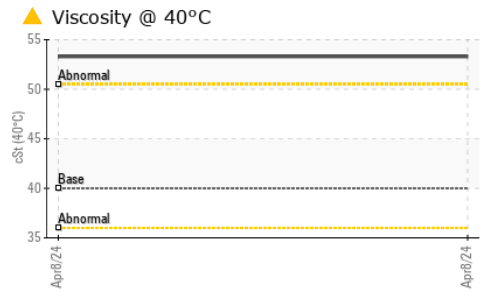
The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

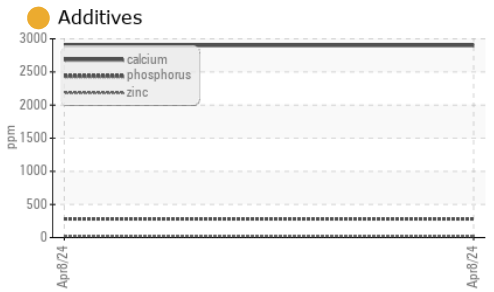
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0092229	---	---
Sample Date		Client Info		08 Apr 2024	---	---
Machine Age	hrs	Client Info		24807	---	---
Oil Age	hrs	Client Info		4000	---	---
Filter Age	hrs	Client Info		1000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184*		39	---	---
Iron	ppm	ASTM D5185(m)	>65	▲ 375	---	---
Chromium	ppm	ASTM D5185(m)	>6	3	---	---
Nickel	ppm	ASTM D5185(m)	>10	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	---	---
Lead	ppm	ASTM D5185(m)	>45	0	---	---
Copper	ppm	ASTM D5185(m)	>120	<1	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>25	4	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 344821	---	---
Particles >6µm		ASTM D7647	>1300	▲ 184032	---	---
Particles >14µm		ASTM D7647	>160	▲ 3085	---	---
Particles >21µm		ASTM D7647	>40	▲ 283	---	---
Particles >38µm		ASTM D7647	>10	14	---	---
Particles >71µm		ASTM D7647	>3	2	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 26/25/19	---	---
Silt	scalar	Visual*	NONE	LIGHT	---	---
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*	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185(m)		3	---	---
Boron	ppm	ASTM D5185(m)		5	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		8	---	---
Magnesium	ppm	ASTM D5185(m)		11	---	---
Calcium	ppm	ASTM D5185(m)		2900	---	---
Phosphorus	ppm	ASTM D5185(m)		● 282	---	---
Zinc	ppm	ASTM D5185(m)	0.0	● 23	---	---
Sulfur	ppm	ASTM D5185(m)		● 1884	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	40	▲ 53.3	---	---

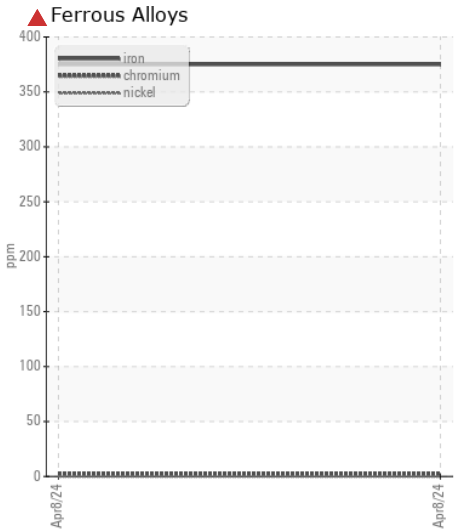


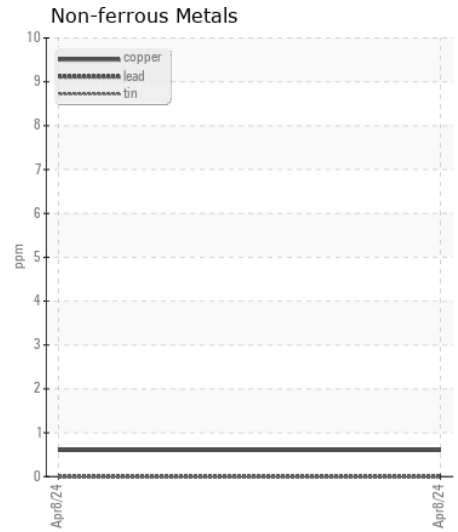


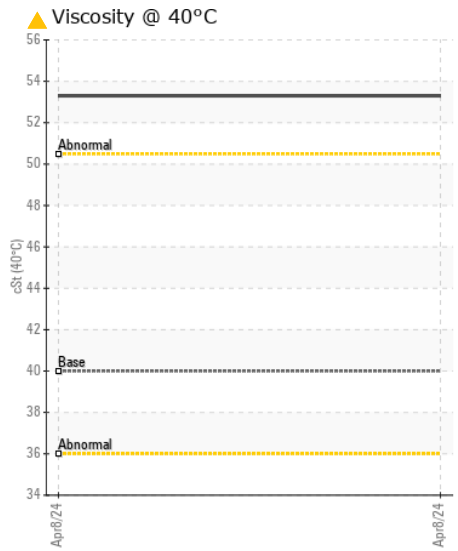


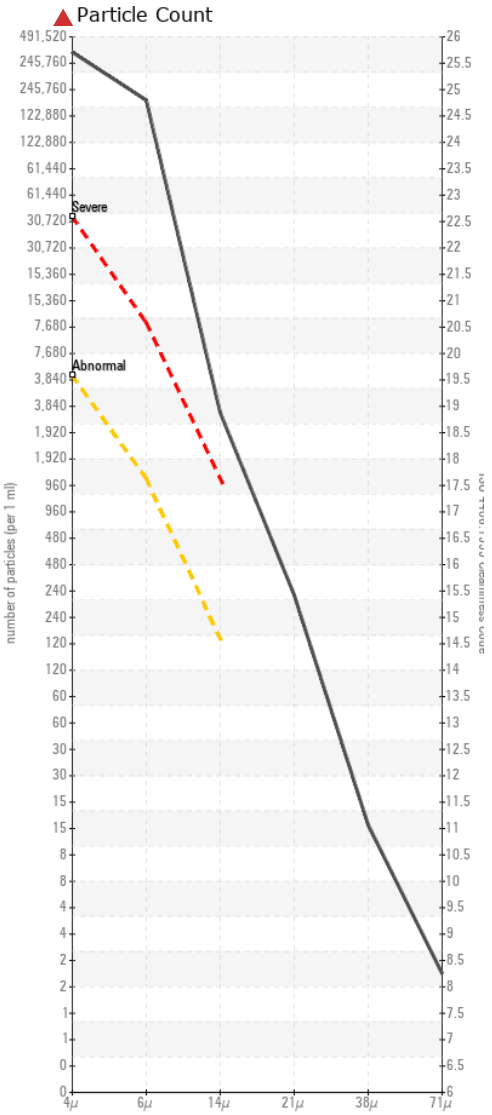












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0092229
Lab Number : 02630279
Unique Number : 5763411
Test Package : MOB 1 (Additional Tests: PQ, PrtCount)

Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Kevin Marson

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.

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