WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

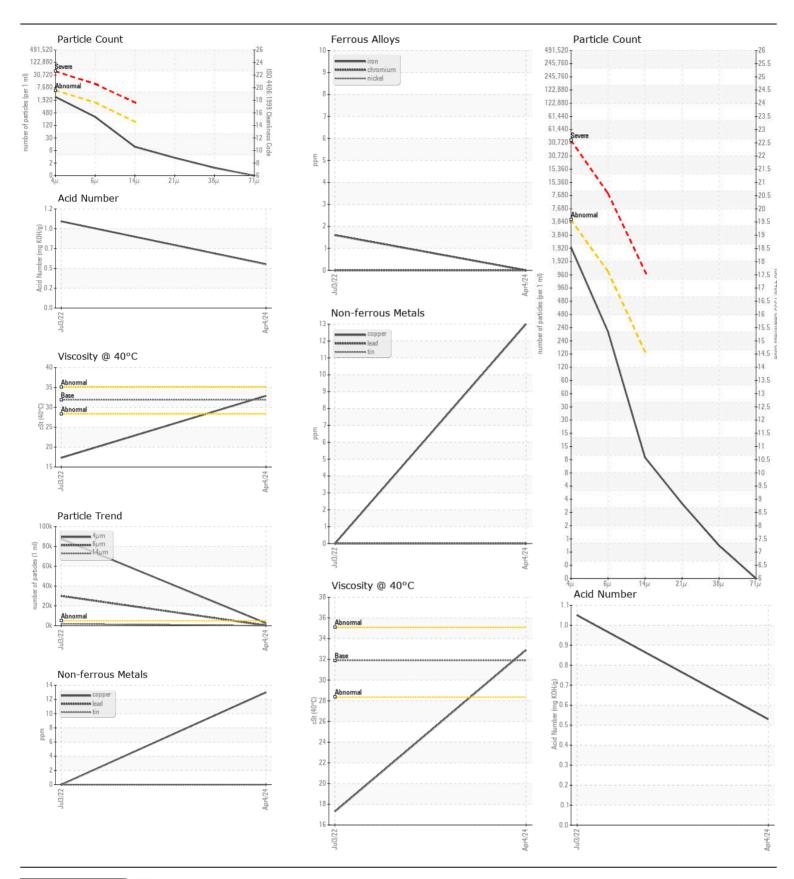
Machine Id

GM-3701A CRUDE LOADING LUBE OIL

Lube System

IRVING HYDRAULIC OIL LP 32 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Number		Client Info		PP	PP	
	Sample Date		Client Info		04 Apr 2024	03 Jul 2022	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	SEVERE	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>20	0	2	
	Chromium	ppm	ASTM D5185(m)		0	0	
	Nickel	ppm	ASTM D5185(m)		0	0	
	Titanium	ppm	ASTM D5185(m)	710	0	0	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>10	0	0	
	Lead	ppm	ASTM D5185(m)	>20	0	0	
	Copper	ppm	ASTM D5185(m)		13	0	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
NONT A MINA TION			10TH B	4.5			
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		0	<1	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185(m)		0	<1	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		2442	▲ 87630	
	Particles >6µm		ASTM D7647		269	30009	
	Particles >14µm		ASTM D7647		10	▲ 1871	
	Particles >21µm		ASTM D7647		3	▲ 384	
	Particles >38µm Particles >71µm		ASTM D7647		1	16 1	
	Oil Cleanliness		ASTM D7647 ISO 4406 (c)		0	1 ▲ 24/22/18	
	Silt	scalar	Visual*	>19/11/14 NONE	18/15/10 NONE	NONE	
	Debris		Visual*	NONE	NONE	VLITE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance		Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water			>0.05	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)		<1	2	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		0	0	
	Manganese	ppm	ASTM D5185(m)		0	0	
	Magnesium	ppm	ASTM D5185(m)		<1	0	
	Calcium	ppm	ASTM D5185(m)		49	0	
	Phosphorus	ppm	ASTM D5185(m)	105	310	66	
	Zinc	ppm	ASTM D5185(m)	400	392	2	
	Sulfur	ppm	ASTM D5185(m)		794	2882	
	Acid Number (AN)	mg KOH/g	ASTM D974*	01.0	0.53	1.05	
	Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.9	17.3	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PP : 02626992 Unique Number : 5760124

Test Package : MAR 2

Received **Tested** Diagnosed

: 05 Apr 2024 : 08 Apr 2024

: 08 Apr 2024 - Kevin Marson

HIBERNIA MGMT & DEVELOPMENT CO. LTD SUITE 1000,, 100 NEW GOWER STREET ST.JOHNS, NL

CA A1C 6K3 Contact: Sam Nash

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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.