



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Direct Strip Mill/Caster
 Machine Id
LLO.4 CIRCULATING LUBE OIL SYSTEM (DSC033) (S/N 1000026165)
 Component
Gear Lube System
 Fluid
GEAR OIL ISO 460 (3720 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0837377	WC0837571	WC0837410
Sample Date		Client Info		29 Feb 2024	18 Jan 2024	14 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	21	22	19
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	0
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

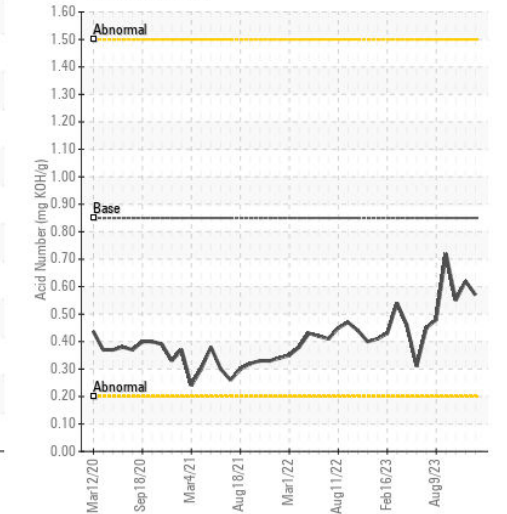
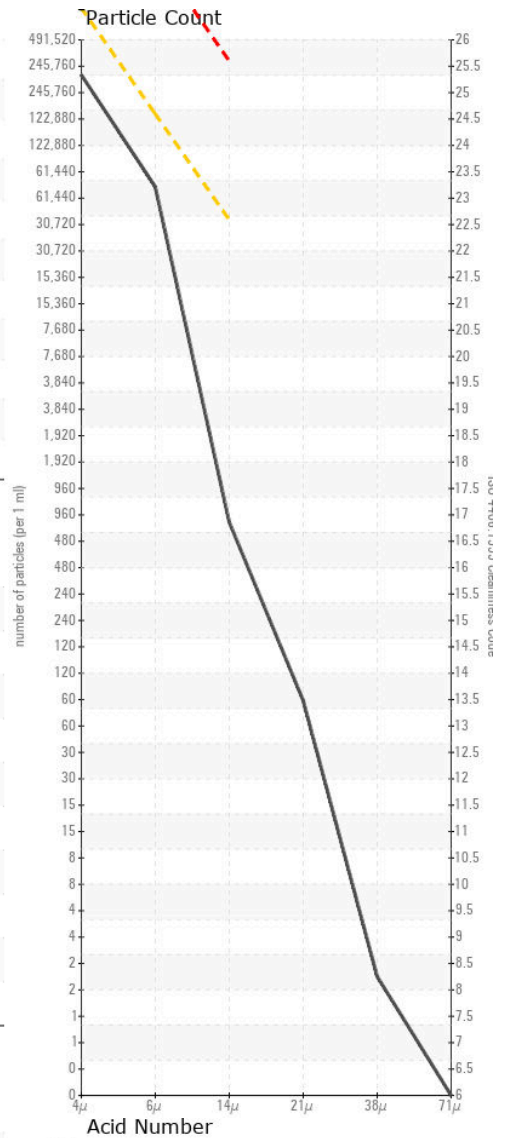
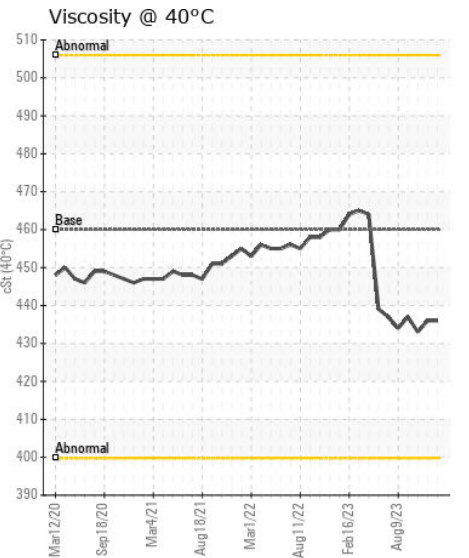
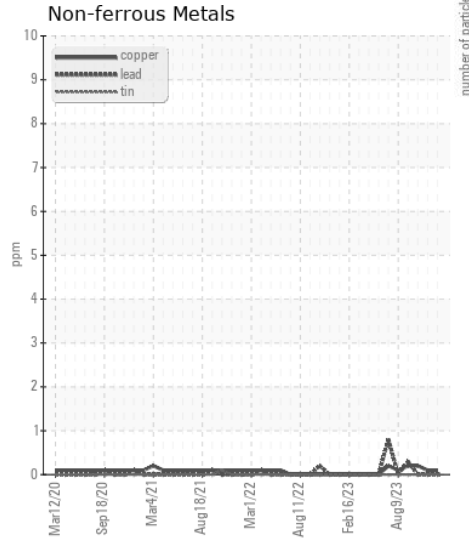
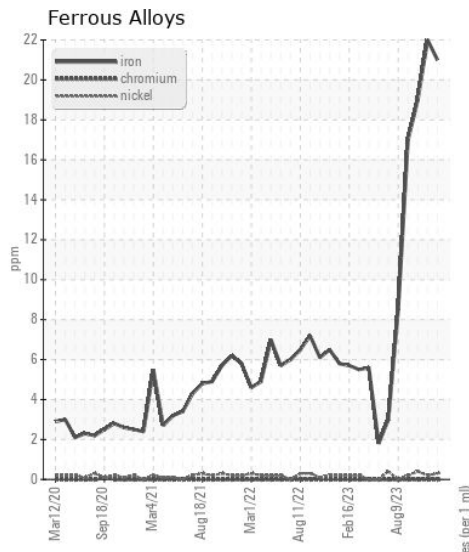
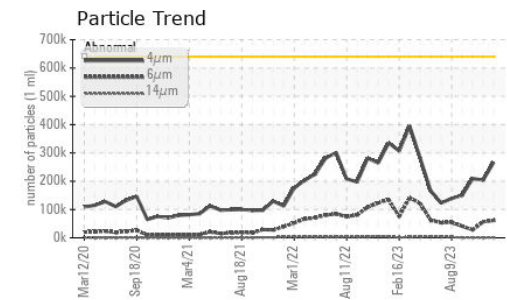
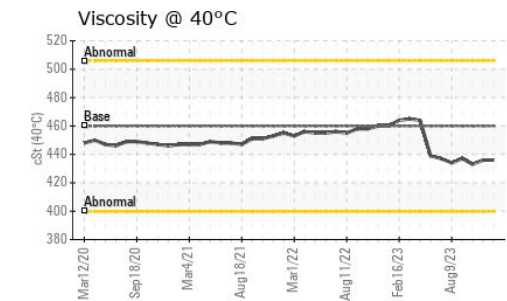
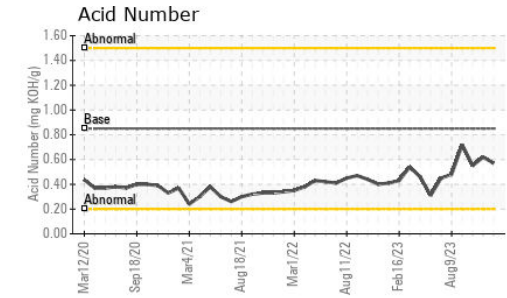
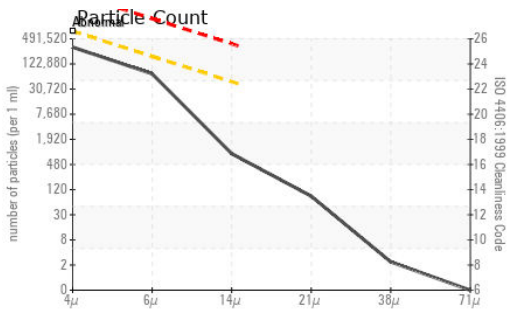
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>50	3	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>640000	266424	203713	209625
Particles >6µm		ASTM D7647	>160000	61562	56505	27867
Particles >14µm		ASTM D7647	>40000	765	353	971
Particles >21µm		ASTM D7647	>10000	74	38	79
Particles >38µm		ASTM D7647	>2500	2	3	0
Particles >71µm		ASTM D7647	>640	0	0	0
Oil Cleanliness		ISO 4406 (c)	>26/24/22	25/23/17	25/23/16	25/22/17
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	0	<1
Boron	ppm	ASTM D5185(m)	50	<1	<1	1
Barium	ppm	ASTM D5185(m)	15	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	15	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	50	0	0	<1
Calcium	ppm	ASTM D5185(m)	50	<1	1	<1
Phosphorus	ppm	ASTM D5185(m)	350	177	187	216
Zinc	ppm	ASTM D5185(m)	100	4	4	4
Sulfur	ppm	ASTM D5185(m)	12500	10094	10045	9912
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	0.57	0.62	0.55
Visc @ 40°C	cSt	ASTM D7279(m)	460	436	436	433



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0837377
Lab Number : 02620027
Unique Number : 5737137
Test Package : IND 2 (Additional Tests: TAN Man)
Received : 05 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Wes Davis

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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.