

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 10002315 RETURN ARRIVAL CHAIN CONVEYOR

Chain Case

CASTROL ALPHASYN HG 220 (--- LTR)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

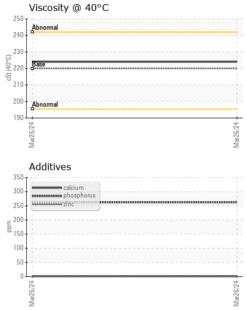
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0922019		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		1200		
Oil Age	hrs	Client Info		1200		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	1		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	0		
Lead	ppm	ASTM D5185(m)	>100	0		
Copper	ppm	ASTM D5185(m)	>50	0		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		<1		
Phosphorus	ppm	ASTM D5185(m)		262		
Zinc	ppm	ASTM D5185(m)		1		
Sulfur	ppm	ASTM D5185(m)		94		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2		
	ppm	ASTM D5185(m)		- <1		
	ppm	ASTM D5185(m)	>20	2		



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
	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		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPER	RTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	220	224		
	SAMPLE IMAGI	ES	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	400 Severe			300	T Severe		
muu	200 - Abnormal			²⁰⁰ ط	Abnormal		
	T				1		
	0			0			
	T				1		
	0)		0		pm)	
	Aluminum (ppm)		0 War26/24	Chromium (p	pm)	
mm.	Aluminum (ppm)		0 War26/24	Chromium (p	pm)	
mm	Aluminum (ppm)		30 52925eW 820 820 820 10	Chromium (p	pm)	
	Aluminum (ppm)		30 82/92/92/92/92/92/92/92/92/92/92/92/92/92	Chromium (p	pm)	
	Aluminum (ppm)		30 52925eW 820 820 820 10	Chromium (p	pm)	
	Aluminum (ppm)		30 82/92/92/92/92/92/92/92/92/92/92/92/92/92	+2292/mW Chromium (p Severe Abnomal	pm)	
	Aluminum (ppm)		30 82/92/92/92/92/92/92/92/92/92/92/92/92/92	Abnomal Bilicon (ppm)	pm)	
	Aluminum (ppm)		400 400 400 400 400 400 400 400	Abnormal	pm)	
	Aluminum (ppm)		427926724 400 400 400 400 400 400 400 400 400 4	Abnormal	pm)	
	Aluminum (ppm Aluminum (ppm bevere)		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium (p	pm)	
	Aluminum (ppm Aluminum (ppm bevere)		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium (p	pm)	
	Aluminum (ppm ¹⁰⁰ 			400 400 400 400 400 400 400 400	http://www.chromium (p	pm)	
	Aluminum (ppm Aluminum (ppm) ¹⁰⁰ ⁵⁰ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶			4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium (p Severe Abnormal Silicon (ppm) Severe Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal	pm)	
mnm	Aluminum (ppm Aluminum (ppm) ¹⁰⁰ ⁵⁰ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶			400	Additives		
mnm	Aluminum (ppm Aluminum (ppm) ¹⁰⁰ ⁵⁰ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶			47092126W 47092126W 47092126W 47092126W 47092126W 47092126W 47092126W 47092126W 47092126W 47092126W	Additives		
M M M	Aluminum (ppm Aluminum (ppm Aluminum (ppm) biological Abnomal Copper (ppm) Copper (ppm) Viscosity @ 40°C Abnomal			4000	Chromium (p		
nnm	Aluminum (ppm Aluminum (ppm Aluminum (ppm) biological Abnomal Copper (ppm) Copper (ppm) Viscosity @ 40°C Abnomal			4000	Chromium (p		
cSt (40°C)	Aluminum (ppm Aluminum (ppm ¹⁰⁰ ⁵⁰			400 400 400 400 400 400 400 400	Chromium (p Chromium (p Severe Abnomal H0902mW Silicon (ppm) Severe Abnomal H0902mW Additives Additives	s	
cSt (40°C)	Aluminum (ppm Aluminum (ppm Aluminum (ppm) biological Abnomal Copper (ppm) Copper (ppm) Viscosity @ 40°C Abnomal		ived : 04	400 400 400 400 400 400 400 400	Chromium (p Chromium (p Severe Abnormal H2982reW Silicon (ppm) Severe Abnormal H2982reW Additives H2982reW Additives		uis Moonstor

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. CA LOK 1E0 Contact: Paul Jordan snowmaking@mslm.on.ca T: F: (705)835-2831

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