WEAR CONTAMINATION FLUID CONDITION

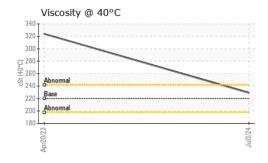
NORMAL

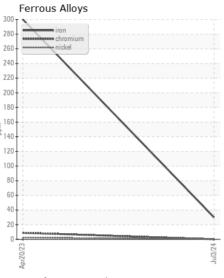
ABNORMAL

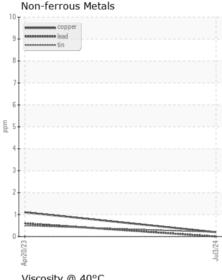
NORMAL

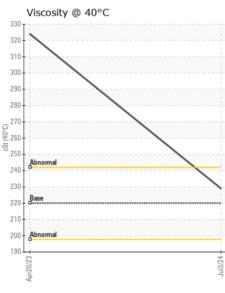
Machine Id
HC2209
Component
1 Winch

GEAR OIL ISO 220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0951925	WC0784996	
	Sample Date		Client Info		03 Jul 2024	20 Apr 2023	
	Machine Age	hrs	Client Info		10485	8992	
	Oil Age	hrs	Client Info		1000	1340	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>150	30	△ 300	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	9	
	Nickel	ppm	ASTM D5185m	>10	<1	2	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>5	<1	7	
	Lead	ppm	ASTM D5185m	>15	0	<1	
	Copper	ppm	ASTM D5185m	>80	<1	1	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	1	14	
There is no indication of any contamination in the oil. Sample is layered with different type/density oil.	Potassium	ppm	ASTM D5185m	>20	3	5	
	Water	%	ASTM D6304	>0.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	SOLID	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	11	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	50	2	2	
	Barium	ppm	ASTM D5185m	15	0	0	
	Molybdenum	ppm	ASTM D5185m	15	0	<1	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		2	2	
	Calcium	ppm	ASTM D5185m		6	35	
	Phosphorus	ppm	ASTM D5185m		367	420	
	Zinc	ppm		100	54	205	
	Sulfur	ppm	ASTM D5185m		7294	7735	
Paget Id: PLICCPA BALLICCAPI 06221902 (Caparated: 07/11/2024 10:57:06) Page 1	Visc @ 40°C	cSt	ASTM D445		229	324	PLICODA











Certificate L2367

Laboratory Sample No.

Lab Number : 06231802

Unique Number : 11115295

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0951925

Tested Diagnosed Test Package : CONST (Additional Tests: KF)

Received

: 11 Jul 2024 : 11 Jul 2024 - Jonathan Hester

: 09 Jul 2024

4732 NC 54 EAST GRAHAM, NC US 27253-9215

BUCKNER HEAVY LIFT

Contact: MICHAEL LAWSON michaell@bucknercompanies.com T: (336)376-8888

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (336)376-4090