

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

ISO - Laminator [B3410] Machine Id Laminator Hydraulic System B3410 Component

Hydraulic System

SHELL TELLUS 46 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. (Customer Sample Comment: Oil is new -A month ago switched from Hydrex 46 to Shell Tellus 46 - Filter is old)

SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0106230		
Sample Date		Client Info		13 Sep 2023		
Machine Age	mths	Client Info		1		
Oil Age	mths	Client Info		1		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	<1		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	11	51		
Calcium	ppm	ASTM D5185m	35	31		
Phosphorus	ppm	ASTM D5185m	266	299		
Zinc	ppm	ASTM D5185m	276	351		
Sulfur	ppm	ASTM D5185m	1847	940		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2666		
Particles >6µm		ASTM D7647	>1300	396		
Particles >14µm		ASTM D7647	>160	19		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/11		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.37		



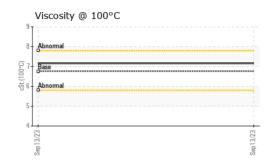
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Diagnosed

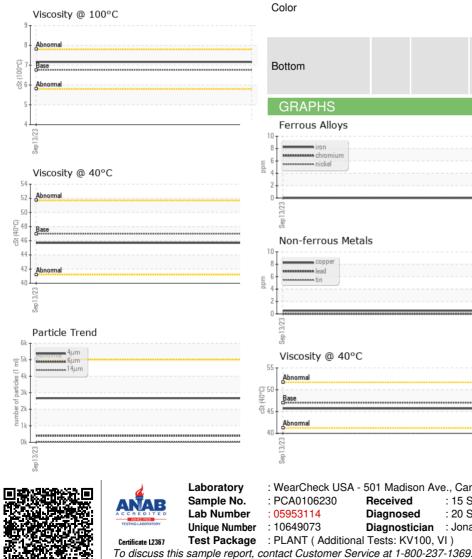
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 20 Sep 2023

Diagnostician : Jonathan Hester







VISUAL White Metal *Visual NONE NONE scalar Yellow Metal *Visual NONE NONE scalar Precipitate scalar *Visua NONE NONE Silt scalar *Visual NONE NONE Debris *Visual NONE NONE scalar NONE Sand/Dirt scalar *Visual NONE NORML Appearance *Visual NORML scalar NORML NORML Odor scalar *Visual **Emulsified Water** scalar *Visual >0.05 NEG Free Water scalar *Visual NEG **FLUID PROPERTIES** Visc @ 40°C cSt ASTM D445 46.99 45.69 Visc @ 100°C cSt ASTM D445 6.76 7.16 Viscosity Index (VI) Scale ASTM D2270 96 116 SAMPLE IMAGES Color no image no image Bottom no image no image GRAPHS Ferrous Alloys Particle Count 491 520 122.88 30.72 7 68 20 2 Sep13/23 -Sep 13/23 4406 (per 1 1.920 18 1999 Cle Non-ferrous Metals 480 120 31 Sep 13/23 Ge 214 38 Viscosity @ 40°C Acid Number (^B/HOX ^B/_B) 0.30 b 0.20 50.10 Abno 0.00 PC Sep13/23 Sep1 Sep1 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **IKO HAGERSTOWN** Received : 15 Sep 2023 : PCA0106230