

# LABORATORY ANALYSIS



11525 Rock Island Court, St. Louis, MO 63043  
Tel: 1-800-876-0008 info@englube.com

Department **WINDING**  
 Equipment No. **TRANS08 DIP & BAKE CONVEYOR #3 (00173)**  
 System **Transmission**  
 Oil Type **ENGINEERED LUBRICANTS ENLUBE S-POLY-G-2188-WGO-X (--- GAL)**

**COPELAND (MHDS)**  
 6001 S. 35TH STREET, SUITE D"  
 REYNOSA, ZZ  
 US  
 Contact: GERARDO GUERRERO  
 francisco.castillo@Copeland.com  
 T:  
 F:

## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the fluid. The condition of the fluid is acceptable for the time in service.

## Sample Information

Lab Number	New	<b>2405-00137</b>	2312-00791	2312-00752
Date of Sample	(Typical)	<b>28 Apr 2024</b>	14 Dec 2023	14 Dec 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>ATTENTION</b>	NORMAL	NORMAL

## VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	460	<b>443.2</b>	453.5	456.3
SSU Vis. @ 100F	SSU		<b>2,053.6</b>	2,101.5	2,114.5
cSt Vis. @ 100C	cSt		<b>76.10</b>	76.94	77.32
SSU Vis. @ 210F	SSU		<b>355.3</b>	359.2	361.0
cSt Vis. @ 40C	cSt	460	<b>443.2</b>	453.5	456.3
SSU Vis. @ 40C	SSU		<b>2,053.6</b>	2,101.5	2,114.5
cSt Vis. @ 100C	cSt		<b>76.10</b>	76.94	77.32
SSU Vis. @ 100C	SSU		<b>355.3</b>	359.2	361.0
Viscosity Index			<b>253</b>	252	252

## TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974)

TAN, mg KOH/g	mg KOH/g	0.61	<b>0.71</b>	0.60	0.59
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## Hiac Particle Count/ISO 4406

4 Micron & Larger	particles/ml	>640000	<b>625,817</b>	185,369	260,050
6 Micron & Larger	particles/ml	>80000	<b>82,785</b>	26,858	24,130
14 Micron & Larger	particles/ml	>2500	<b>1,602</b>	321	620
ISO Code	ISO 4406(c)	>26/23/18	<b>26/24/18</b>	25/22/16	25/22/16

## ENERGY DISPERSIVE XRF - PPM (\*BELOW MINIMUM DETECTION LIMIT)

Aluminum (Al)	ppm		*	*	*
Antimony (Sb)	ppm		*	*	*
Cadmium (Cd)	ppm		*	*	*
Chromium (Cr)	ppm		*	*	*
Cobalt (Co)	ppm		*	*	*
Copper (Cu)	ppm		<b>*</b>	28	61
Iron (Fe)	ppm		<b>14</b>	*	*
Lead (Pb)	ppm		*	*	*
Manganese (Mn)	ppm		*	*	*
Molybdenum(Mo)	ppm		*	*	*
Nickel (Ni)	ppm		*	*	*
Potassium (K)	ppm		<b>*</b>	*	*
Tin (Sn)	ppm		*	*	*
Titanium (Ti)	ppm		*	*	*
Vanadium (V)	ppm		*	*	*
Barium (Ba)	ppm		*	*	*
Calcium (Ca)	ppm		*	*	*
Magnesium (Mg)	ppm		*	*	*
Phosphorus(P)	ppm	957	<b>979</b>	722	687
Silicon (Si)	ppm		*	*	*
Zinc (Zn)	ppm		*	*	*
Chlorine (Cl)	ppm		*	*	*
Sulfur (S)	ppm	555	<b>285</b>	277	257

Customer Id: MOTMCA  
 Sample No.: EN24050137  
 Lab Number: 24050137  
 Test Package: TEST

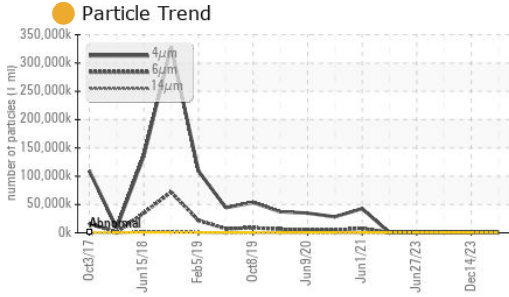


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To discuss the diagnosis or test data:  
 Brian Klutenkamper +1 (314)872-9540  
[bklutenkamper@englube.com](mailto:bklutenkamper@englube.com)

To change component or sample information:  
 Tracy Weaks +1 (314)872-9540  
[tweaks@englube.com](mailto:tweaks@englube.com)

# OIL ANALYSIS REPORT



## DR FERROGRAPHY READINGS

L		71.5	57.0	21.0
S		27.5	7.0	4.0
WPC	DL + DS	99	64	25

## Contamination

Water	>0.45	<b>NEG</b>	NEG	NEG
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