

LABORATORY ANALYSIS



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

Department **WINDING**
 Equipment No. **TRANS05 DIP & BAKE CONVEYOR #2 (00171)**
 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 that you drain the fluid from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. L, % large particles, severity index and wpc levels are abnormal. There is a light amount of silt (particulates < 14 microns in size) present in the fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2405-00132	2312-00748	2308-01087
Date of Sample	(Typical)	28 Apr 2024	14 Dec 2023	14 Aug 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	NORMAL	NORMAL

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	460	443.4	446.4	452.5
SSU Vis. @ 100F	SSU		2,054.7	2,068.6	2,096.5
cSt Vis. @ 100C	cSt		76.04	78.96	76.63
SSU Vis. @ 210F	SSU		355.1	368.7	357.8
cSt Vis. @ 40C	cSt	460	443.4	446.4	452.5
SSU Vis. @ 40C	SSU		2,054.7	2,068.6	2,096.5
cSt Vis. @ 100C	cSt		76.04	78.96	76.63
SSU Vis. @ 100C	SSU		355.1	368.7	357.8
Viscosity Index			253	259	251

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

TAN, mg KOH/g	mg KOH/g	0.61	0.70	0.67	0.56
---------------	----------	------	-------------	------	------

Hiac Particle Count/ISO 4406

4 Micron & Larger	particles/ml	>640000	633,177	142,244	39,467
6 Micron & Larger	particles/ml	>80000	85,383	13,286	3,513
14 Micron & Larger	particles/ml	>2500	1,167	662	136
ISO Code	ISO 4406(c)	>26/23/18	26/24/17	24/21/17	22/19/14

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		*	30	69
Iron (Fe)	ppm		14	*	*
Lead (Pb)	ppm		*	*	*
Manganese (Mn)	ppm		*	*	*
Molybdenum(Mo)	ppm		*	*	*
Nickel (Ni)	ppm		*	*	*
Potassium (K)	ppm		*	*	*
Tin (Sn)	ppm		*	*	*
Titanium (Ti)	ppm		*	*	*
Vanadium (V)	ppm		*	*	*
Barium (Ba)	ppm		*	*	*
Calcium (Ca)	ppm		*	*	*
Magnesium (Mg)	ppm		*	*	*
Phosphorus(P)	ppm	957	995	1,010	721
Silicon (Si)	ppm		*	*	*
Zinc (Zn)	ppm		*	*	*
Chlorine (Cl)	ppm		*	*	*
Sulfur (S)	ppm	555	252	278	448

Customer Id: MOTMCA
 Sample No.: EN24050132
 Lab Number: 24050132
 Test Package: TEST

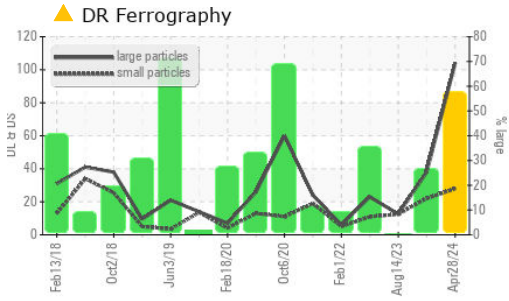


To manage this report scan the QR code

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

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

OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		▲ 104.0	■ 38.0	■ 12.5
S		■ 28.0	■ 22.0	■ 12.5
WPC	DL + DS	▲ 132	■ 60	■ 25

Contamination

Water	>0.45	NEG	NEG	NEG
-------	-------	------------	-----	-----

