

LABORATORY ANALYSIS



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Department **WINDING**
Equipment No. **TRANS02 DIP & BAKE CONVEYOR #1 (00014)**
System **Transmission**
Oil Type **ENGINEERED LUBRICANTS ENLUBE S-POLY-G-2188-WGO-X (--- GAL)**

Diagnosis

We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. L and S levels are severe. Iron (Fe) ppm levels are severe. Severity Index and WPC levels are severe. Gear wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2405-00135	2312-00751	2202-00513
Date of Sample	(Typical)	28 Apr 2024	14 Dec 2023	01 Feb 2022
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	SEVERE	ABNORMAL

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	460	439.8	439.6	451.4
SSU Vis. @ 100F	SSU		2,038.0	2,036.7	2,091.7
cSt Vis. @ 100C	cSt		75.94	76.19	79.23
SSU Vis. @ 210F	SSU		354.6	355.8	369.9
cSt Vis. @ 40C	cSt	460	439.8	439.6	451.4
SSU Vis. @ 40C	SSU		2,038.0	2,036.7	2,091.7
cSt Vis. @ 100C	cSt		75.94	76.19	79.23
SSU Vis. @ 100C	SSU		354.6	355.8	369.9
Viscosity Index			254	255	258

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

TAN, mg KOH/g	mg KOH/g	0.61	1.29	1.32	0.73
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Hiac Particle Count/ISO 4406

4 Micron & Larger	particles/ml	>640000	478,692	538,658	103,401
6 Micron & Larger	particles/ml	>80000	21,299	24,676	10,567
14 Micron & Larger	particles/ml	>2500	147	282	380
ISO Code	ISO 4406(c)	>26/23/18	26/22/14	26/22/15	24/21/16

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		*	164	22
Iron (Fe)	ppm		159	14	*
Lead (Pb)	ppm		13	*	*
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	1,120	1,140	1,220
Silicon (Si)	ppm		*	*	*
Zinc (Zn)	ppm		*	*	*
Chlorine (Cl)	ppm		*	*	*
Sulfur (S)	ppm	555	311	304	354

Customer Id: MOTMCA
Sample No.: EN24050135
Lab Number: 24050135
Test Package: TEST

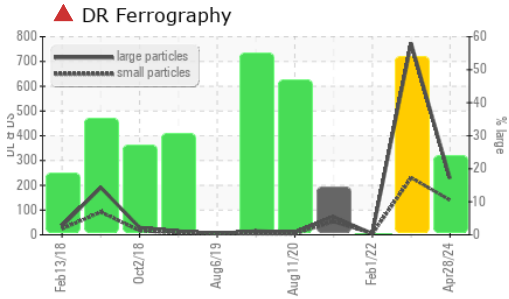


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		▲ 228.0	▲ 773.0	■ 5.0
S		▲ 140.0	▲ 231.0	■ 5.0
WPC	DL + DS	▲ 368	▲ 1004	■ 10

Contamination

Water	>0.45	NEG	NEG	NEG
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