

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **TURNSC0101 TURNSTYLE UNIT 1 (00152)**
 System **Gearbox**
 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
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 T:
 F:

Diagnosis

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. TAN and mg KOH/g is abnormally high. Phosphorus(P) ppm levels are abnormally low.

Sample Information

Lab Number	New	2404-00874	2401-00758	2310-00794
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		123.9	121.4	118.2
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	SEVERE	NORMAL

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	460	31.39	---	474.1
SSU Vis. @ 100F	SSU		147.8	*	2,196.8
cSt Vis. @ 100C	cSt		5.456	---	75.0
SSU Vis. @ 210F	SSU		44.1	---	350.2
cSt Vis. @ 40C	cSt	460	31.39	---	474.1
SSU Vis. @ 40C	SSU		147.8	*	2,196.8
cSt Vis. @ 100C	cSt		5.456	---	75.0
SSU Vis. @ 100C	SSU		44.1	---	350.2
Viscosity Index			109	---	240

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

TAN, mg KOH/g	mg KOH/g	0.61	▲ 2.44	■ 0.48	■ 0.48
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Hiac Particle Count/ISO 4406

4 Micron & Larger	particles/ml	>640000	■ 44,491	■ 356,545	■ 4,419
6 Micron & Larger	particles/ml	>80000	■ 6,120	● 148,404	■ 1,121
14 Micron & Larger	particles/ml	>2500	■ 295	▲ 20,713	■ 76
ISO Code	ISO 4406(c)	>26/23/18	■ 23/20/15	▲ 26/24/22	■ 19/17/13

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		■ *	■ *	■ *
Iron (Fe)	ppm		■ 58	■ *	■ *
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		196	*	*
Calcium (Ca)	ppm		*	*	*
Magnesium (Mg)	ppm		*	*	*
Phosphorus(P)	ppm	957	▲ 556	▲ 302	■ 687
Silicon (Si)	ppm		*	*	*
Zinc (Zn)	ppm		15	*	12
Chlorine (Cl)	ppm		*	*	*
Sulfur (S)	ppm	555	2,240	2,720	311

Customer Id: MOTMCA
 Sample No.: EN24040874
 Lab Number: 24040874
 Test Package: TEST

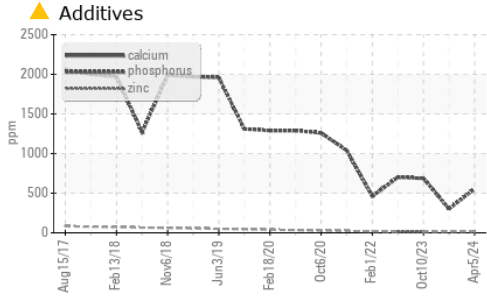


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 9.7	■ 20.0	■ 5.5
S		■ 1.9	■ 2.0	■ 0.5
WPC	DL + DS	■ 11.6	■ 22	■ 6

Contamination

Water	>0.45	NEG	NEG	NEG
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