

LABORATORY ANALYSIS



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

EGS MEXICO S DE RL DE CV
VIA MONTERREY MATAMOROS NO 598
MEXICO, ZZ
Mexico
Contact: Lizbeth Manzanares
Lizbeth.manzanares@emerson.com
T:
F:

Department **SCREW MACHINE**
Equipment No. **80 HYD KAUFMAN 172 (00065)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. L, s, severity index and wpc levels are severe. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is severely high. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

Lab Number	New	2312-00037	2310-00467	2306-00774
Date of Sample	(Typical)	13 Nov 2023	20 Sep 2023	16 Jun 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	SEVERE

VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	283.8	215.6	244.5
cSt Vis. @ 40C	cSt	32.0	41.77	47.34

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	RED	RED
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	25/22/15	22/19/15	22/18/14
4 Micron & Larger	particles/ml	>5000	177,108	21,800	20,043
6 Micron & Larger	particles/ml	>2500	32,323	4,270	2,029
14 Micron & Larger	particles/ml	>160	202	303	81
21 Micron & Larger	particles/ml	>40	21	92	20
38 Micron & Larger	particles/ml	>10	1	10	1
70 Micron & Larger	particles/ml	>3	0	1	0

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<5	<5	<5	
Antimony (Sb)	ppm	<5	<5	<5	
Cadmium (Cd)	ppm	<5	<5	<5	
Chromium (Cr)	ppm	<5	<5	<5	
Cobalt (Co)	ppm	<5	<5	<5	
Copper (Cu)	ppm	22	20	59	
Iron (Fe)	ppm	23	<5	<5	
Lead (Pb)	ppm	13	13	27	
Manganese (Mn)	ppm	<5	<5	<5	
Molybdenum(Mo)	ppm	<5	<5	<5	
Nickel (Ni)	ppm	<5	<5	<5	
Silver (Ag)	ppm	<5	<5	<5	
Tin (Sn)	ppm	<5	<5	<5	
Titanium (Ti)	ppm	<5	<5	<5	
Vanadium (V)	ppm	<5	<5	<5	
Barium (Ba)	ppm	<5	<5	<5	
Boron (B)	ppm	<5	<5	<5	
Calcium (Ca)	ppm	19	42	15	
Magnesium (Mg)	ppm	<5	<5	<5	
Phosphorus(P)	ppm	263	423	165	
Silicon (Si)	ppm	<5	<5	<5	
Zinc (Zn)	ppm	668	234	503	123
Sulfur (S)	ppm	818	1,260	1,170	

Customer Id: ENC0005J03
Sample No.: EN23120037
Lab Number: 23120037
Test Package: TEST



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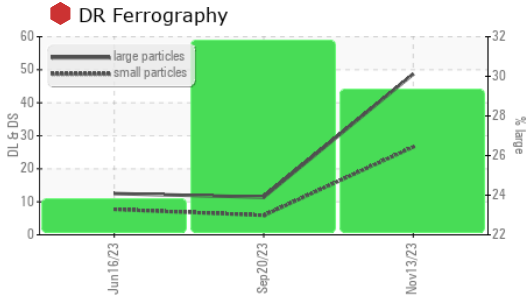
To discuss the diagnosis or test data:

Brad Fritz +1 (314)872-9540
bfritz@englube.com

To change component or sample information:

Tracy Weaks +1 (314)872-9540
tweaks@englube.com

OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		◆ 48.7	■ 11.4	■ 12.5
S		◆ 26.6	■ 5.9	■ 7.7
WPC	DL + DS	◆ 75.3	■ 17.3	■ 20.2

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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