

LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**
 Equipment No. **96 HYD KAUFMAN 165 (00079)**
 System **Hydraulic System**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

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

DIAGNOSIS

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you follow the water drain-off procedure for this component. 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. S and wpc levels are abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a high concentration of water present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

Lab Number	New	2312-00047	2310-00461	2306-00788
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	SEVERE	SEVERE

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

SSU Vis. @ 100F	SSU	340.6	336.0	336.2
cSt Vis. @ 40C	cSt	32.0	65.69	64.81

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	0.891	---	---
ppm Water (KF)	ppm	8,910	---	---

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	23/20/13	24/19/12	23/19/12
4 Micron & Larger	particles/ml	>5000	65,346	101,139	69,788
6 Micron & Larger	particles/ml	>2500	5,290	3,816	3,544
14 Micron & Larger	particles/ml	>160	48	29	26
21 Micron & Larger	particles/ml	>40	13	6	5
38 Micron & Larger	particles/ml	>10	2	0	1
70 Micron & Larger	particles/ml	>3	0	0	0

ICP - OILS (REPORTED IN PARTS PER MILLION)

Element	Unit	<5	<5	<5
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	28	28	9
Iron (Fe)	ppm	7	5	<5
Lead (Pb)	ppm	18	18	5
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	15	6	<5
Calcium (Ca)	ppm	37	42	51
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	458	449	457
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	500	512
Sulfur (S)	ppm		1,550	1,350
				1,520

Customer Id: ENC0005J03
 Sample No.: EN23120047
 Lab Number: 23120047
 Test Package: TEST

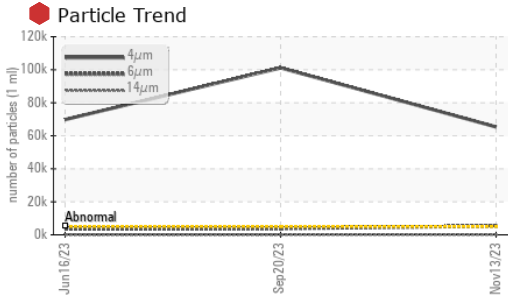


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 18.4	▲ 22.0	■ 9.0
S		▲ 10.7	■ 5.1	■ 4.4
WPC	DL + DS	▲ 29.1	■ 27.1	■ 13.4

