

LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**
Equipment No. **79 HYD KAUFMAN 171 (00070)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

Check seals and/or filters for points of contaminant entry. The oil is near the end of it's useful service life, recommend schedule an oil change. 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 and severity index and wpc levels are severe. S levels are abnormal. 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. cSt Vis. @ 40C is severely high. Zinc (Zn) ppm levels are abnormally low. 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	2312-00041	2310-00457	2306-00779
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	249.5	168.3	174.6
cSt Vis. @ 40C	cSt	32.0	32.54	33.78

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	0.5	1.0	RED
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	23/20/13	23/21/17	23/20/14
4 Micron & Larger	particles/ml	>5000	53,864	68,191	57,506
6 Micron & Larger	particles/ml	>2500	5,698	10,069	6,914
14 Micron & Larger	particles/ml	>160	46	734	107
21 Micron & Larger	particles/ml	>40	5	230	12
38 Micron & Larger	particles/ml	>10	0	18	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	7	8	9
Iron (Fe)	ppm	<5	<5	<5
Lead (Pb)	ppm	5	5	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	<5	<5	<5
Calcium (Ca)	ppm	45	53	57
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	428	451	478
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	450	543
Sulfur (S)	ppm	1,230	1,290	1,600

Customer Id: ENC0005J03
Sample No.: EN23120041
Lab Number: 23120041
Test Package: TEST



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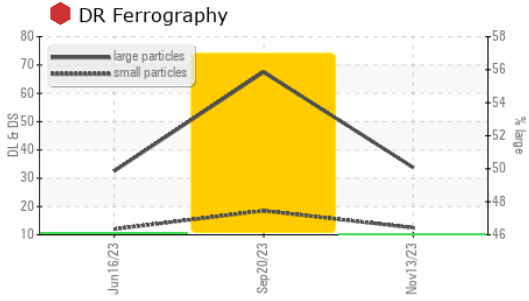
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		33.8	67.5	32.5
S		12.5	18.5	12.0
WPC	DL + DS	46.3	86	44.5

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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