

# LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**  
Equipment No. **60 HYD KAUFMAN 175 (00066)**  
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 and severity index levels are severe. WPC, s and % large particles 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. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is severely high. 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	2312-00038	2310-00459	2306-00775
Date of Sample	(Typical)	<b>13 Nov 2023</b>	20 Sep 2023	16 Jun 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>SEVERE</b>	SEVERE	SEVERE

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

SSU Vis. @ 100F	SSU	394.9	171.7	279.0
cSt Vis. @ 40C	cSt	32.0	33.22	53.96

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	0.5	RED

## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	23/20/14	23/20/14	23/20/15
4 Micron & Larger	particles/ml	>5000	<b>40,095</b>	56,406	62,231
6 Micron & Larger	particles/ml	>2500	<b>6,812</b>	8,659	6,640
14 Micron & Larger	particles/ml	>160	<b>152</b>	118	213
21 Micron & Larger	particles/ml	>40	<b>21</b>	15	65
38 Micron & Larger	particles/ml	>10	<b>0</b>	1	6
70 Micron & Larger	particles/ml	>3	<b>0</b>	0	1

## 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	<b>17</b>	8	<5	
Iron (Fe)	ppm	<b>5</b>	<5	6	
Lead (Pb)	ppm	<b>11</b>	6	<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	<b>14</b>	58	<5	
Magnesium (Mg)	ppm	<5	<5	<5	
Phosphorus(P)	ppm	<b>278</b>	476	8	
Silicon (Si)	ppm	<5	<5	<5	
Zinc (Zn)	ppm	668	<b>131</b>	578	<b>25</b>
Sulfur (S)	ppm	<b>729</b>	1,240	725	

Customer Id: ENC0005J03  
Sample No.: EN23120038  
Lab Number: 23120038  
Test Package: TEST



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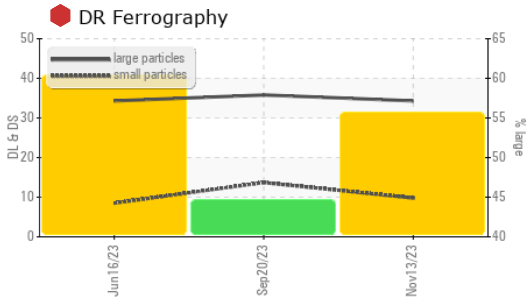
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# OIL ANALYSIS REPORT



## DR FERROGRAPHY READINGS

L		<span style="color: red;">◆</span> <b>34.3</b>	<span style="color: red;">◆</span> 35.8	<span style="color: red;">◆</span> 34.3
S		<span style="color: yellow;">▲</span> <b>9.8</b>	<span style="color: yellow;">▲</span> 13.7	<span style="color: green;">■</span> 8.5
WPC	DL + DS	<span style="color: yellow;">▲</span> <b>44.1</b>	<span style="color: red;">◆</span> 49.5	<span style="color: yellow;">▲</span> 42.8

## CONTAMINATION

Water	>0.05	<b>NEG</b>	NEG	NEG
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