

# LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**  
Equipment No. **84 HYD Kaufman 90 (00006)**  
System **Hydraulic System**  
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

## DIAGNOSIS

Resample at the next service interval to monitor. 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. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	2312-00068	2310-00490	2306-00810
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>ABNORMAL</b>	NORMAL	ATTENTION

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

SSU Vis. @ 100F	SSU	190.5	176.4	175.2
cSt Vis. @ 40C	cSt	32.0	34.14	33.89

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	2.5	3.5*	---
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	19/16/12	19/15/11	20/16/11
4 Micron & Larger	particles/ml	>5000	<b>3,482</b>	2,722	7,210
6 Micron & Larger	particles/ml	>2500	<b>421</b>	284	543
14 Micron & Larger	particles/ml	>160	<b>21</b>	16	18
21 Micron & Larger	particles/ml	>40	<b>5</b>	4	6
38 Micron & Larger	particles/ml	>10	<b>1</b>	0	1
70 Micron & Larger	particles/ml	>3	<b>0</b>	0	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	<5	<5	<5
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	<b>56</b>	57	54
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	<b>472</b>	487	491
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	<b>555</b>	<b>547</b>
Sulfur (S)	ppm	<b>1,450</b>	1,480	1,550

Customer Id: ENC0005J03  
Sample No.: EN23120068  
Lab Number: 23120068  
Test Package: TEST



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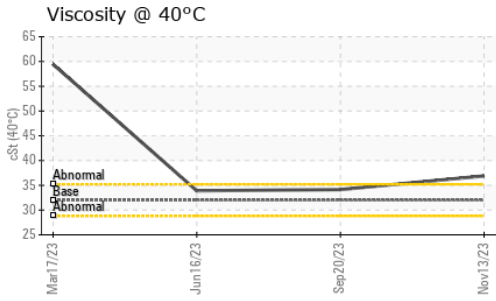
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# OIL ANALYSIS REPORT



### DR FERROGRAPHY READINGS

L		█ <b>10.3</b>	█ 6.1	█ 13.5
S		█ <b>1.1</b>	█ 2.7	█ 7.7
WPC	DL + DS	█ <b>11.4</b>	█ 8.8	█ 21.2

### CONTAMINATION

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