

# LABORATORY ANALYSIS



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Department **MAQUINADOS 3**  
Equipment No. **8910.2 HYD F3 KAUFMAN (F3 SPINDLE TAPPER) (00004)**  
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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	2312-00051	2310-00476	2306-00795
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>NORMAL</b>	NORMAL	ATTENTION

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

SSU Vis. @ 100F	SSU	160.7	161.1	161.2
cSt Vis. @ 40C	cSt	32.0	31.12	31.13

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	0.5	1.0

## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	19/16/13	18/15/11	20/17/12
4 Micron & Larger	particles/ml	>5000	<b>3,705</b>	2,255	5,249
6 Micron & Larger	particles/ml	>2500	<b>577</b>	245	823
14 Micron & Larger	particles/ml	>160	<b>45</b>	13	40
21 Micron & Larger	particles/ml	>40	<b>15</b>	4	8
38 Micron & Larger	particles/ml	>10	<b>1</b>	1	0
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	<b>9</b>	9	9
Iron (Fe)	ppm	<b>&lt;5</b>	<5	<5
Lead (Pb)	ppm	<b>7</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>100</b>	108	108
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	<b>536</b>	579	563
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	<b>637</b>	681
Sulfur (S)	ppm	<b>1,510</b>	1,550	1,600

Customer Id: ENC0005J03  
Sample No.: EN23120051  
Lab Number: 23120051  
Test Package: TEST



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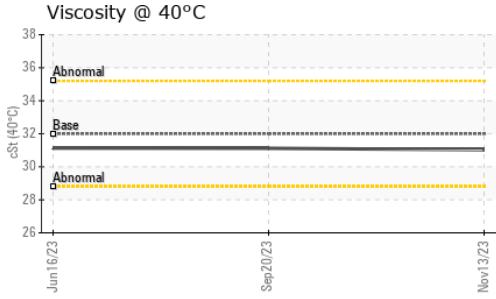
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# OIL ANALYSIS REPORT



## DR FERROGRAPHY READINGS

L		■	5.5	■	5.4	■	6.9
S		■	1.6	■	1.1	■	2.8
WPC	DL + DS	■	7.1	■	6.5	■	9.7

## CONTAMINATION

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