

LABORATORY ANALYSIS



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Equipment No. **Z-1118 (00004)**
System **Hydraulic System**
Oil Type **LUBRAL HIDRALICO ALTO DESEMPER 32 (--- GAL)**

DIAGNOSIS

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. L and S and severity index and WPC levels are severe. % Large Particles levels are abnormal. Copper (Cu) ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated. There is a light amount of silt (particulates < 14 microns in size) present in the oil. 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	2312-00795	---	---
Date of Sample	(Typical)	15 Dec 2023	---	---
Oil Added		UNK	---	---
Last Drain Date		--	---	---
Last Filter Service		--	---	---
Sample Point		---	---	---
Sample Status		SEVERE	---	---

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

SSU Vis. @ 100F	SSU	244.4	---	---
cSt Vis. @ 40C	cSt	32	▲ 47.32	---

TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974)

TAN, mg KOH/g	mg KOH/g	0.52	■ 0.69	---	---
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>21/20/16	22/20/17	---	---
4 Micron & Larger	particles/ml	>20000	▲ 33,134	---	---
6 Micron & Larger	particles/ml	>10000	■ 7,147	---	---
14 Micron & Larger	particles/ml	>640	▲ 653	---	---
21 Micron & Larger	particles/ml	>160	188	---	---
38 Micron & Larger	particles/ml	>40	■ 13	---	---
70 Micron & Larger	particles/ml	>10	■ 0	---	---

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm		■ <5	---	---
Antimony (Sb)	ppm		<5	---	---
Cadmium (Cd)	ppm		<5	---	---
Chromium (Cr)	ppm		■ <5	---	---
Cobalt (Co)	ppm		<5	---	---
Copper (Cu)	ppm		▲ 24	---	---
Iron (Fe)	ppm		■ 11	---	---
Lead (Pb)	ppm		■ 16	---	---
Manganese (Mn)	ppm		<5	---	---
Molybdenum (Mo)	ppm		<5	---	---
Nickel (Ni)	ppm		■ <5	---	---
Silver (Ag)	ppm		<5	---	---
Tin (Sn)	ppm		■ <5	---	---
Titanium (Ti)	ppm		<5	---	---
Vanadium (V)	ppm		<5	---	---
Barium (Ba)	ppm		9	---	---
Boron (B)	ppm		<5	---	---
Calcium (Ca)	ppm	55	■ 103	---	---
Magnesium (Mg)	ppm		<5	---	---
Phosphorus (P)	ppm	355	■ 548	---	---
Silicon (Si)	ppm		■ <5	---	---
Zinc (Zn)	ppm	431	■ 564	---	---
Sulfur (S)	ppm	1380	1,920	---	---

Customer Id: NMLCAPO
Sample No.: EN23120795
Lab Number: 23120795
Test Package: TEST



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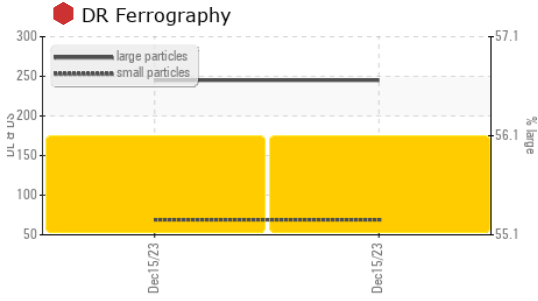
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		◆ 245.0	---	---
S		◆ 69.0	---	---
WPC	DL + DS	◆ 314	---	---

CONTAMINATION

Water	>0.05	NEG	---	---
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