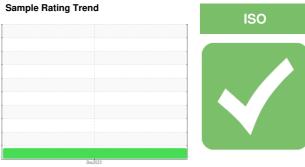


OIL ANALYSIS REPORT

EMPE P210-10-1037 (S/N V605)

Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW



Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

68 (200 GAL)						
,		, <u>.</u>		Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50001277		
Sample Date		Client Info		22 Dec 2023		
Machine Age	hrs	Client Info		25111		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	15		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		74		
Calcium	ppm	ASTM D5185m		70		
Phosphorus	ppm	ASTM D5185m	425	286		
Zinc	ppm	ASTM D5185m	500	362		
Sulfur	ppm	ASTM D5185m	1900	1391		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.003		
opm Water	ppm	ASTM D6304	>500	28		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6449		
Particles >6µm		ASTM D7647	>1300	172		
Particles >14μm		ASTM D7647	>160	4		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A	1/011/	4 OT1 4 DOO (-	0.7	2.25		

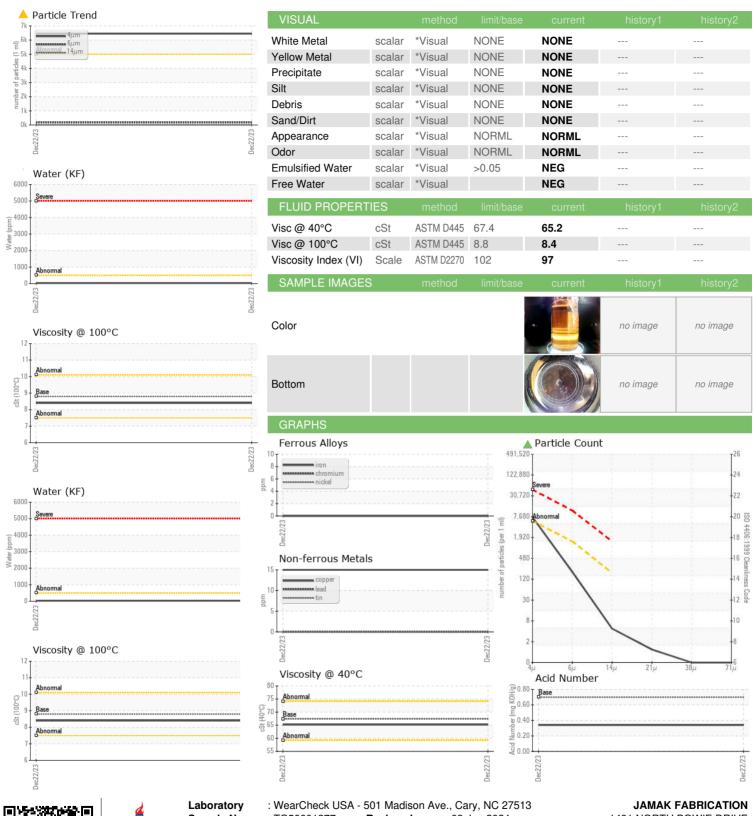
Acid Number (AN)

mg KOH/g ASTM D8045 0.7

0.34



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: TO50001277 : 06054901 : 10820850

: 08 Jan 2024 Recieved Diagnosed : 10 Jan 2024

Diagnostician : Wes Davis Test Package : IND 2 (Additional Tests: KF, KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

1401 NORTH BOWIE DRIVE

WEATHERFORD, TX US 76086

Contact: LARRY NORRIS

lano@jamak.com

T: F: