

OIL ANALYSIS REPORT

Sample Rating Trend

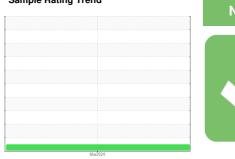


EMPWMachine Id

280-10-1054 (S/N 1190157)

Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

68 (101 GAL)						
SAMPLE INFORM	/ATION	method	limit/base	Mar ²⁰²⁴ Current	history1	history2
Sample Number		Client Info	mmo sass	TO50002034		
		Client Info		25 Mar 2024		
Sample Date	bro	Client Info		46623		
Machine Age	hrs	Client Info				
Oil Changed	hrs			5015		
Oil Changed Sample Status		Client Info		Not Changd NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
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	1		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		<1		
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		80		
Calcium	ppm	ASTM D5185m		77		
Phosphorus	ppm	ASTM D5185m	425	295		
Zinc	ppm	ASTM D5185m	500	368		
Sulfur	ppm	ASTM D5185m	1900	1986		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.004		
ppm Water	ppm	ASTM D6304	>500	43		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4192		
Particles >6µm		ASTM D7647	>1300	519		
Particles >14µm		ASTM D7647	>160	35		
Particles >21µm		ASTM D7647	>40	8		
Particles >38µm		ASTM D7647	>10	0		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.41		



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