

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FERRARA LADDER 51

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

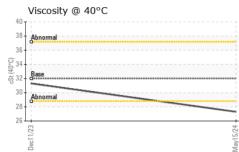
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0938769	WC0882461	
Sample Date		Client Info		15 May 2024	11 Dec 2023	
Machine Age	hrs	Client Info		84	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>10	4	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	1	<1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
201011	ppiii		•	U	0	
Barium	ppm	ASTM D5185m	5	1	0	
				1 0		
Barium	ppm	ASTM D5185m	5	1	0	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	5	1 0	0	
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200	1 0 0	0 0 <1	
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25	1 0 0 6	0 0 <1 5	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200	1 0 0 6 56	0 0 <1 5 51	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300	1 0 0 6 56 312	0 0 <1 5 51 328	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370	1 0 0 6 56 312 436	0 0 <1 5 51 328 410	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	1 0 6 56 312 436 831	0 0 <1 5 51 328 410 784	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 Limit/base	1 0 0 6 56 312 436 831 current	0 0 <1 5 51 328 410 784 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	5 5 25 200 300 370 2500 Limit/base >20	1 0 0 6 56 312 436 831 current <1	0 0 <1 5 51 328 410 784 history1 0	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 Limit/base >20	1 0 0 6 56 312 436 831 current <1 0	0 0 <1 5 51 328 410 784 history1 0 0	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	1 0 0 6 56 312 436 831 current <1 0 1	0 0 <1 5 51 328 410 784 history1 0 0 0	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 2500 2500 2500 220 220 220 220 22	1 0 0 6 56 312 436 831 current <1 0 1 current	0 0 <1 5 51 328 410 784 history1 0 0 0 0 0	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 2500 limit/base >20 20 limit/base NONE	1 0 0 6 56 312 436 831 current <1 0 1 current NONE	0 0 (-1) 5 51 328 410 784 history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	5 5 25 200 300 370 2500 2500 <i>limit/base</i> >20 <i>limit/base</i> NONE NONE	1 0 0 6 56 312 436 831 current <1 0 1 1 current NONE NONE	0 0 <1 5 51 328 410 784 history1 0 0 0 0 0 history1 NONE NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual *Visual	5 5 25 200 300 370 2500 limit/base >20 limit/base NONE NONE NONE NONE	1 0 0 6 56 312 436 831 current <1 0 1 1 current NONE NONE NONE NONE	0 0 (-1) 5 51 328 410 784 history1 0 0 0 0 0 history1 NONE NONE NONE NONE	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual	5 5 25 200 300 370 2500 2500 limit/base >20 limit/base NONE NONE NONE NONE NONE	1 0 0 6 56 312 436 831 current <1 0 1 1 current NONE NONE NONE NONE NONE	0 0 (1 5 5 51 328 410 784 history1 0 0 0 0 0 0 0 history1 NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual *Visual	5 5 25 200 300 370 2500 2500 limit/base >20 limit/base NONE NONE NONE NONE NONE NONE NONE	1 0 0 6 56 312 436 831 current <1 0 1 1 current NONE NONE NONE NONE NONE NONE	0 0 (-1) 5 51 328 410 784 history1 0 0 0 0 history1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	5 5 200 300 370 2500 2500 2500 2500 2500 2500 2500 25	1 0 0 6 56 312 436 831 current <1 0 1 current NONE NONE NONE NONE NONE NONE NONE	0 0 (-1) 5 51 328 410 784 history1 0 0 0 0 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	5 5 200 300 370 2500 2500 2500 2500 2500 2500 20 20 20 20 20 20 20 20 20 20 20 20 2	1 0 0 6 56 312 436 831 Current <1 0 1 Current 0 1 VONE NONE NONE NONE NONE NONE NONE NONE	0 0 3 5 5 5 1 328 410 784 history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	5 5 25 200 300 370 2500 2500 limit/base >20 limit/base >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	1 0 0 6 56 312 436 831 current <1 0 1 current 1 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 3 5 5 5 328 410 784 history1 0 0 0 0 0 history1 0 0 0 0 0 history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 history2 history2 -



OIL ANALYSIS REPORT



FLUID PROPERTIES	method limit/ba	se current	history1	history2
Visc @ 40°C cSt	ASTM D445 32	27.3	31.3	
SAMPLE IMAGES	method limit/ba	se current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image
GRAPHS				
Ferrous Alloys				
9- iron chromium				
8 ninnen nickel				
6- E r				
E 5- 4-				
3 - 2 -				
1				
0 I	/24			
Dec11/23	May15/24			
Non-ferrous Metals				
9- copper				
8 +				
6-				
Ed 5 -				
3				
2				
	24			
Deci 1/23	May15/24			
Viscosity @ 40°C	-			
40 T				
38 Abnormal				
36				
0 34 6 7 7 32 - Base				
3 32 30				
Abnormal				
26				
Dec11/23	May15/24			
Dec	May			
: WearCheck USA - 501 Madis	on Ave., Carv. NC 2751	13	SCO	TT FIRE DEF
: WC0938769 Rec	eived : 05 Jun 2024	1		PO BOX 30
: 06200925 Test : 11063048 Diag	ted : 06 Jun 2024 gnosed : 08 Jun 2024 -			SCOTT, L US 7058
: FLEET			Contac	t: C. SONNIE

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)

Certificate L2367

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