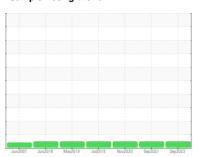


## **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



# SUTPHEN LADDER-701

Component

Hydraulic System

Hydraulic System

**DEXRON III (--- GAL)** 

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DEXRON III. Please confirm.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

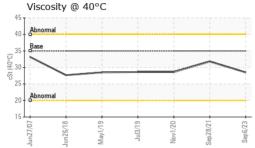
### **Fluid Condition**

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

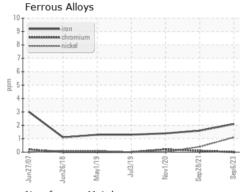
Sample Date         Client Info         06 Sep 2023         28 Sep 2021         01 Nov 2020           Machine Age         hrs         Client Info         120         0         0           Oil Age         hrs         Client Info         120         0         0           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         NORMAL         NORMAL         NORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         2         1         Chromium           Ppm         ASTM D5185m         >10         0         <1			Jun2007	Jun2018 May2019	Jul2019 Nov2020 Sep2021	Sep2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         120         0         0           Oil Age         hrs         Client Info         120         0         0           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         2         1           Chromium         ppm         ASTM D5185m         >10         0         <1	Sample Number		Client Info		WC0843870	WC0609537	WC0499438
Machine Age         hrs         Client Info         120         0         0           Oil Age         hrs         Client Info         120         0         0           Oil Changed         Client Info         N/A         Not Changd         N/A           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         2         1           Chromium         ppm         ASTM D5185m         >10         0         <1	Sample Date		Client Info		06 Sep 2023	28 Sep 2021	01 Nov 2020
Oil Changed   Client Info   N/A   NOR Changed   N/A   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL	Machine Age	hrs	Client Info		-	0	0
Oil Changed   Client Info   N/A   NORMAL   NORMAL   NORMAL	Oil Age	hrs	Client Info		120	0	0
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         2         2         1           Chromium         ppm         ASTM D5185m         >10         0         -1         <1           Nickel         ppm         ASTM D5185m         0         0         0         0           Titanium         ppm         ASTM D5185m         0         -1         -1         0           Aluminum         ppm         ASTM D5185m         0         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         0         -1         -1         -1         0         -1         0         -1         -1         -1         -1         0         -1         -1         -1         0         -1         -1         0         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1	Oil Changed		Client Info		N/A	Not Changd	N/A
Iron	Sample Status				NORMAL	NORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >10         0         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>20	2	2	1
Titanium	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>10	1	<1	0
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m		0	<1	0
Copper         ppm         ASTM D5185m         >75         5         4         3           Tin         ppm         ASTM D5185m         >10         <1         0         0           Antimony         ppm         ASTM D5185m          0         <1         0           Vanadium         ppm         ASTM D5185m         0         <1         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         1         1         1           Molybdenum         ppm         ASTM D5185m         0         1         1         1           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         6         5         5         5           Calcium         ppm         ASTM D5185m         295         261         256         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         20         4         4         1 <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;10</th> <th>&lt;1</th> <th>&lt;1</th> <th>&lt;1</th>	Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Tin         ppm         ASTM D5185m         >10         <1	Lead	ppm	ASTM D5185m	>10	<1	<1	0
Antimony         ppm         ASTM D5185m          0         <1	Copper	ppm	ASTM D5185m	>75	5	4	3
Vanadium         ppm         ASTM D5185m         0         <1	Tin	ppm	ASTM D5185m	>10	<1	0	0
Cadmium         ppm         ASTM D5185m         <1	Antimony	ppm	ASTM D5185m			0	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium         ppm         ASTM D5185m         0         1         1           Molybdenum         ppm         ASTM D5185m         <1         <1         <1           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         6         5         5           Calcium         ppm         ASTM D5185m         147         153         132           Phosphorus         ppm         ASTM D5185m         295         261         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         20         4         4         1           Sodium         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         4         4	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		114	94	92
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         6         5         5           Calcium         ppm         ASTM D5185m         147         153         132           Phosphorus         ppm         ASTM D5185m         295         261         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visu	Barium	ppm	ASTM D5185m		0	1	
Magnesium         ppm         ASTM D5185m         6         5         5           Calcium         ppm         ASTM D5185m         147         153         132           Phosphorus         ppm         ASTM D5185m         295         261         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Vellow Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visua	Molybdenum	ppm	ASTM D5185m		<1	<1	
Calcium         ppm         ASTM D5185m         147         153         132           Phosphorus         ppm         ASTM D5185m         295         261         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Visual         NONE         NONE         NONE         NONE         <	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus         ppm         ASTM D5185m         295         261         256           Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silt	Magnesium	ppm	ASTM D5185m		6	5	5
Zinc         ppm         ASTM D5185m         92         73         67           Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE	Calcium	ppm	ASTM D5185m		147	153	132
Sulfur         ppm         ASTM D5185m         1021         1476         714           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         >20         10         9         9           Potassium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Sand/Dirt         s	Phosphorus	ppm	ASTM D5185m		295	261	256
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         10         9         9           Potassium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORML         NORML         NORML         NORML           Appearance         scalar         *Visual         NORML         NORML	Zinc	ppm	ASTM D5185m		92	73	67
Silicon         ppm         ASTM D5185m         >20         4         4         1           Sodium         ppm         ASTM D5185m         10         9         9           Potassium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORM         NORML	Sulfur	ppm	ASTM D5185m		1021	1476	714
Sodium         ppm         ASTM D5185m         10         9         9           Potassium         ppm         ASTM D5185m         >20         1         0         13           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NORM         NORML         NORML         NORML           Appearance         scalar         *Visual         NORML         NORML         NORML         NORML           Odor         scalar         *Visual         >0.1         NEG         NEG         NEG	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 0 13  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Silicon	ppm	ASTM D5185m	>20	4	4	1
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		10	9	9
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Potassium	ppm	ASTM D5185m	>20	1	0	13
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG							
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG							
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG							
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG							
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Debris	scalar	*Visual				
Odor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Emulsified Water	scalar	*Visual	>0.1		NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG



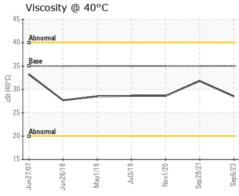
## **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	35.0	28.5	31.8	28.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image



# Non-ferrous Metals







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10669151 Test Package : FLEET

: WC0843870 : 05962600

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

Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Sep 2023 : 28 Sep 2023

Diagnostician : Wes Davis

WEST MONROE FIRE DISTRICT 4341 CYPRESS ST

WEST MONROE, LA US 71291

Contact: GARY THOMAS gthomas@westmonroe.la.gov T:

\* - 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)

F: