

OIL ANALYSIS REPORT

[2076019] Machine Id HS-13 (S/N TDSH233L2089F)

Refrigeration Compressor

Fluid

CAMCO (150 GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil.

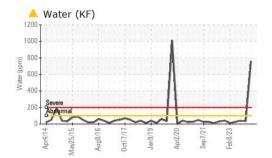
Fluid Condition

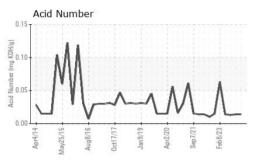
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

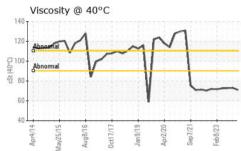
CAMPLE INCORN	AATIONI	and a the soul	11 14./1		for the second	le le term o
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914839	WC0857538	WC0831583
Sample Date		Client Info		24 Mar 2024	25 Oct 2023	10 Jul 2023
Machine Age	hrs	Client Info		2076019	177479	175829
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	5	4
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>3	5	1	<1
Lead	ppm	ASTM D5185m	>2	<1	<1	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
	- - · · ·			· ·	~ 1	
ADDITIVES	Please	method	limit/base	current	history1	history2
	ppm		limit/base	-		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2 0 2
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 0 0	history2 0 2 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 0	history1 0 0 0 0 0	history2 0 2 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 0 0 8	history1 0 0 0 0 0 <1	history2 0 2 0 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 8 <1	history1 0 0 0 0 0 <1 0	history2 0 2 0 0 0 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	0 0 0 0 0 0 8 <1	history1 0 0 0 0 0 <1 0 0	history2 0 2 0 0 0 0 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	0 0 0 0 0 8 <1 0	history1 0 0 0 0 0 <1 0 0 0	history2 0 2 0 0 0 0 0 <1 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		0 0 0 0 0 8 <1 0	history1 0 0 0 0 <1 0 0 0 <1 0 0 0	history2 0 2 0 0 0 0 0 <1 <1 59
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	Current 0 0 0 0 8 <1 0 2 current	history1 0 0 0 0 <1 0 0 0 history1	history2 0 2 0 0 0 0 0 <1 <1 59 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 0 8 <1 0 current <1	history1 0 0 0 0 0 <1 0 0 0 1 0 0 history1 <1	history2 0 2 0 0 0 0 0 <1 <1 59 history2 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >15	current 0 0 0 0 0 8 <1 0 2 current <1 0	history1 0 0 0 0 0 <1 0 0 0 <1 0 history1 <1 0	history2 0 2 0 0 0 0 0 0 <1 <1 59 history2 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >15 >20	current 0 0 0 0 8 <1 0 2 current <1 0 20	history1 0 0 0 0 0 <1 0 0 0 0 history1 <1 0 <1	history2 0 2 0 0 0 0 0 0 <1 <1 59 history2 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >15 >20 >0.01	current 0 0 0 0 8 <1 0 2 current <1 0 20 △ 0.076	history1 0 0 0 0 0 <1 0 0 0 0 history1 <1 0 <1 0 0 0 history1	history2 0 2 0 0 0 0 0 <1 <1 59 history2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



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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	▲ MODER
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.01	0.2 %	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2

SAMPLE IMAGES

cSt

method

ASTM D445

limit/base

current

71.0

history1

73.0

history2

72.8

Color

Visc @ 40°C

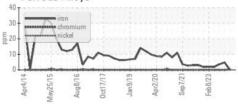
Bottom

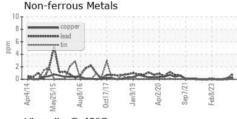


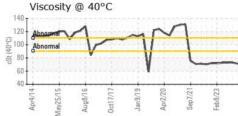


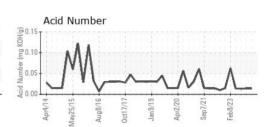
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory

Sample No.

Lab Number : 06132094 Unique Number: 10951559

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0914839

Received **Tested** Diagnosed

: 28 Mar 2024 : 29 Mar 2024

: 02 Apr 2024 - Jonathan Hester

LAMB WESTON/RDO PO BOX 552 PARK RAPIDS, MN US 56470

Contact: MICHAEL GRUIS michael.gruis@lambweston.com

T: (218)732-2188 F: (218)732-2175

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)