

OIL ANALYSIS REPORT

ENGINE ROOM RC07 (S/N 160335)

Refrigeration Compressor

CAMCO 717 HT (120 GAL)

2012 Est-2012 Est-2014 Is-2015 Is-2015 Is-2015 Is-2017 Is-2017 Is-2017

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

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 07 Oct 2023 10 Jul 2023 20 Apr 2023 Machine Age hrs Client Info 0 0 0 63411 0 0 0 0 0 0 0 0 0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 63411 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status NORMAL NORMAL NORMAL NORMAL WEAR METALS method Imit // Lose current history1 history2 Iron ppm ASTM D5185m >8 6 4 6 Chromium ppm ASTM D5185m >2 3 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >3 0 <1 0 Lead ppm ASTM D5185m >3 0 <1 0 Copper ppm ASTM D5185m >4 0 0 0 Vanadium	Sample Number		Client Info		WC0857514	WC0824770	WC0797213
Oil Age hrs Client Info 0	Sample Date		Client Info		07 Oct 2023	10 Jul 2023	20 Apr 2023
Oil Changed Client Info N/A N/A N/A N/A NORMAL NOR	Machine Age	hrs	Client Info		0	0	63411
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2	Oil Age	hrs	Client Info		0	0	0
WEAR METALS	Oil Changed		Client Info		N/A	N/A	N/A
Irron	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >2 3 0 0 Nickel ppm ASTM D5185m 0 0 0 Tittanium ppm ASTM D5185m 0 -1 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >8 0 0 0 Lead ppm ASTM D5185m >4 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium <t< td=""><td>WEAR METALS</td><td></td><td>method</td><td>limit/base</td><th>current</th><td>history1</td><td>history2</td></t<>	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>8	6	4	6
Description	Chromium	ppm	ASTM D5185m	>2	3	0	0
Silver	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum	Titanium	ppm	ASTM D5185m		0	<1	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >8 0 0 0 Tin ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 0 <1	Aluminum	ppm	ASTM D5185m	>3	0	<1	0
Tin	Lead	ppm	ASTM D5185m	>2	0	0	0
Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 1 -1 Calcium ppm ASTM D5185m 2 0 0 1 Calcium ppm ASTM D5185m 2 0 0 -1 Zinc ppm ASTM D5185m 0 0 0 -1 Zinc ppm ASTM D5185m 0 0 0 -1 Zinc ppm ASTM D5185m 0 0 0 0 Silicon	Copper	ppm	ASTM D5185m	>8	0	0	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 1 1 Calcium ppm ASTM D5185m 2 0 0 1 Calcium ppm ASTM D5185m 2 0 0 -1 Phosphorus ppm ASTM D5185m 0 0 -1 -1 Zinc ppm ASTM D5185m 0 0 0 -1 Zinc ppm ASTM D5185m 0 0 7 20 CONTAMINANTS method limit/base current history1 history2 <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>>4</td><th>0</th><td>0</td><td>0</td></t<>	Tin	ppm	ASTM D5185m	>4	0	0	0
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 0 0 1 Calcium ppm ASTM D5185m 2 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 0 7 20 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 0 Sodium ppm ASTM D5185m >15 <1 <1 0 0 Sodium ppm ASTM D5185m >20 <1 <1 0 0 VISUAL method limit/base current history1 history2 White Metal s	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 0 0 1 Calcium ppm ASTM D5185m 2 0 0 Phosphorus ppm ASTM D5185m 0 0 <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 0 0 1 Calcium ppm ASTM D5185m 2 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 0 7 20 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 2 0 0 Phosphorus ppm ASTM D5185m 0 0 <1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus ppm ASTM D5185m 0 0 <1 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 7 20 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE	Magnesium	ppm	ASTM D5185m		0	0	1
Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 0 7 20 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow 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		2	0	0
Sulfur ppm ASTM D5185m 0 7 20 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Phosphorus	ppm	ASTM D5185m		0	0	<1
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m 0 <1 <1 0 Potassium ppm ASTM D5185m >20 <1 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Stand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m 0 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 0 0 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 NORML Odor	Sulfur	ppm	ASTM D5185m		0	7	20
Sodium ppm ASTM D5185m 0 <1 <1 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<100VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Silicon	ppm	ASTM D5185m	>15	<1	<1	0
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		0	<1	<1
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 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 >0.01 NEG NEG NEG Free Water Scalar *Visual NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	<1	0	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE 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 >0.01 NEG NEG Free Water scalar *Visual NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE 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 >0.01 NEG NEG Free Water scalar *Visual NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE 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 >0.01 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.01 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Debris	scalar	*Visual		NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.01 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.01 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
FLUID PROPERTIES method limit/base current history1 history2	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPERT	IES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

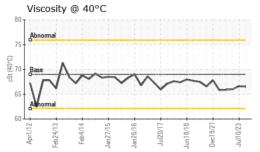
ASTM D445 69

66.6

66.0



OIL ANALYSIS REPORT





GRAPHS Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C





Laboratory Sample No. Lab Number Test Package : IND 1

Unique Number : 10698091

: WC0857514 : 05980796

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed : 18 Oct 2023

Diagnostician : Jonathan Hester

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)

Contact: ERIC KLINE EKLINE@LEPRINOFOODS.COM

LEPRINO FOODS-GREELEY

Contact/Location: ERIC KLINE - LEPGRE

Report Id: LEPGRE [WUSCAR] 05980796 (Generated: 10/20/2023 14:47:16) Rev: 2

1302 1ST AVE

GREELEY, CO

US 80631-5909

F: (970)347-5190