

OIL ANALYSIS REPORT

TE-PLUS 46 QUINCY UN110876 - SKOOKUM/USCG Component

Compressor

Recommendation

Resample at the next service interval to monitor.

Wear

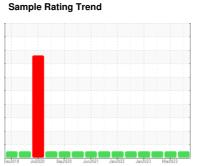
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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





NORMAL

Sample Date Client Info 31 May 2023 20 Mar 2023 14 Feb 2023 Machine Age hrs Client Info 51866 51470 51383 Dil Age hrs Client Info 390 6000 1000 Oli Changed Client Info Nor Changd N/A Nor Changd Nor Changd Sample Status method imit/base current history 1 history 2 fron ppm ASTM 05185m >50 7 2 4 Chromium ppm ASTM 05185m >10 0 0 0 Vickel ppm ASTM 05185m >25 1 2 3 Lead ppm ASTM 05185m >25 0 0 -1 Vanadium ppm ASTM 05185m >15 0 0 -1 Vanadium ppm ASTM 05185m 0 0 0 0 Cardmium ppm ASTM 05185m 0 0 0 0	SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
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Machine AgehrsClient Info518685147051363Oil AgahrsClient Info39060001000Somple Status-Client InfoNORMALNORMALNORMALWEAR METALSnethodinti/basecurrenthistory 1history 2KronppmASTM D5185m>50724ChromiumppmASTM D5185m>50724SilverppmASTM D5185m0000SilverppmASTM D5185m0000SilverppmASTM D5185m>502-1123LeadppmASTM D5185m>502-1100CopperppmASTM D5185m>502-1100CadmiumppmASTM D5185m500000ADDITVESmethodinit/baseour000ASTM D5185m000000ASTM D5185m000000MarganeseppmASTM D5185m0000MarganeseppmASTM D5185m0001PhosphorusppmASTM D5185m0001PhosphorusppmASTM D5185m2-1141PhosphorusppmASTM D5185m2-1132Silcon	Sample Date		Client Info		31 May 2023	20 Mar 2023	14 Feb 2023
Dil Age hrs Client Info 390 6000 1000 Not Changed Client Info Not Changd NA Not Changd Sample Status method imit/base current history 1 history 2 VeAR METALS method imit/base current history 1 history 2 fon ppm ASTM 05185n >50 7 2 4 Chromium ppm ASTM 05185n 0 0 0 Nickel ppm ASTM 05185n 0 0 0 Silver ppm ASTM 05185n >25 1 2 3 Lead ppm ASTM 05185n >50 2 -1 -1 Copper ppm ASTM 05185n 50 2 -1 -1 Vanadium ppm ASTM 05185n 50 0 -1 0 Cadmium ppm ASTM 05185n 0 0 0 0 ADDITIVES method imit/base current history 1 history 2 Boron ppm ASTM 05185n 0 0 0 0 Magnesium ppm ASTM 05185n 0 0 -1	Machine Age	hrs	Client Info			51470	51363
Dil ChangedClient InfoNot ChangdN/ANot ChangdSample StatusIINorMALLNORMALNORMALNORMALWEAR METALSmethodimil/basecurrenthistory 1history 2tronppmASTM D5185m>10000ChromiumppmASTM D5185m>10000VickelppmASTM D5185m0000TrianiumppmASTM D5185m0000AuminumppmASTM D5185m2500<1LeadppmASTM D5185m>502<10CopperppmASTM D5185m>502<10VanadiumppmASTM D5185m>502<10CadmiumppmASTM D5185m00<10ASTM D5185m>000000Astm D5185m00<1000Astm D5185m00<1000MaganeseppmASTM D5185m00<10MaggensiumppmASTM D5185m00<10ProsphorusppmASTM D5185m00<10ProsphorusppmASTM D5185m20<100ProsphorusppmASTM D5185m20<122SodiumppmASTM D5185m <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>390</th><th>6000</th><th>1000</th></td<>	Oil Age	hrs	Client Info		390	6000	1000
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TitaniumppmASTM D5185m0<1	Chromium	ppm	ASTM D5185m	>10	0	0	0
TitaniumppmASTM D5185m0<1	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >25 1 2 3 Lead ppm ASTM D5185m >25 0 0 <1 Copper ppm ASTM D5185m >50 2 <1 <1 Tin ppm ASTM D5185m >15 0 0 <1 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 ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 <1 Phosphorus ppm ASTM D5185m 341 336 370 2 Stilfur ppm ASTM D5185m 25 <1 2 2 2 Sodium ppm ASTM D5185m 255 <1 2<	Titanium		ASTM D5185m		0	<1	0
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Lead ppm ASTM D5185m >25 0 0 <1	Aluminum		ASTM D5185m	>25	1	2	3
Copper ppm ASTM D5185m >50 2 <1	Lead		ASTM D5185m	>25	0		<1
TinppmASTM D5185m>1500<1	Copper			>50		<1	
Vanadium ppm ASTM D5185m 0 <1	Tin				0		
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory 1history 2BoronppmASTM D5185m000BariumppmASTM D5185m000ManganeseppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m000MagnesiumppmASTM D5185m114<1CalciumppmASTM D5185m341336370ZincppmASTM D5185m341336370ZincppmASTM D5185m715255SulfurppmASTM D5185m11378471355CONTAMINANTSmethodlimit/basecurrenthistory 1history 2SoliconppmASTM D5185m>20<100FLUID DEGRADATIONmethodlimit/basecurrenthistory 1history 2Acid Number (AN)mg/KHgASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONENONENONEYeisualNONENONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONE <td< th=""><th>Vanadium</th><th></th><th>ASTM D5185m</th><th></th><th></th><th><1</th><th>0</th></td<>	Vanadium		ASTM D5185m			<1	0
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 0 -1 0 Magnesium ppm ASTM D5185m <1 4 <1 Calcium ppm ASTM D5185m <1 4 <1 Calcium ppm ASTM D5185m 0 0 <1 Phosphorus ppm ASTM D5185m 341 336 370 Zinc ppm ASTM D5185m 341 336 370 Zinc ppm ASTM D5185m >25 <1 2 2 Soliton ppm ASTM D5185m >20 <1 0 0 FLUID DEGRADATION method limit/base current history 1 history 2 Mite Metal scalar *Visual NONE NONE	Cadmium						0
BariumppmASTM D5185m000MolybdenumppmASTM D5185m0<10MaganeseppmASTM D5185m<14<1CalciumppmASTM D5185m<14<1CalciumppmASTM D5185m<14<1CalciumppmASTM D5185m341336370ZincppmASTM D5185m341336370ZincppmASTM D5185m715255SulfurppmASTM D5185m11378471355CONTAMINANTSmethodlimit/basecurrenthistory 1history 2SiliconppmASTM D5185m>25<122SodiumppmASTM D5185m>20<100FLUID DEGRADATIONmethodlimit/basecurrenthistory 1history 2Acid Number (AN)mg KOHgASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONECodorscal	ADDITIVES		method	limit/base	current	history 1	history 2
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ManganeseppmASTM D5185m0<1	Barium	ppm	ASTM D5185m		0	0	0
MagnesiumppmASTM D5185m<1	Molybdenum	ppm	ASTM D5185m		0	0	0
CalciumppmASTM D5185m00<1	Manganese	ppm	ASTM D5185m		0	<1	0
PhosphorusppmASTM D5185m341336370ZincppmASTM D5185m715255SulfurppmASTM D5185m11378471355CONTAMINANTSmethodlimit/basecurrenthistory 1history 2SiliconppmASTM D5185m>25<122SodiumppmASTM D5185m>25<122SodiumppmASTM D5185m>20<100FLUID DEGRADATIONmethodlimit/basecurrenthistory 1history 2Acid Number (AN)mg KOHgASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAcid Diritscalar*VisualNONENONENONENONEAcid Numescalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESolitscalar*VisualNONENONENONENONEAppearance <td< th=""><th>Magnesium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th><1</th><th>4</th><th><1</th></td<>	Magnesium	ppm	ASTM D5185m		<1	4	<1
ZincppmASTM D5185m715255SulfurppmASTM D5185m11378471355CONTAMINANTSmethodlimit/basecurrenthistory 1history 2SiliconppmASTM D5185m>25<122SodiumppmASTM D5185m>25<122SodiumppmASTM D5185m>20<100FLUID DEGRADATIONmethodlimit/basecurrenthistory 1history 2Acid Number (AN)mg KOHgASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESoldy Metalscalar*VisualNONENONENONENONENONESoldy Metalscalar*VisualNONENONENONENONENONESoldy Metalscalar*VisualNONENONENONENONENONESoldy Metalscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAcid Norrescalar*VisualNORMLNORMLNORMLNORMLNORML <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th><1</th>	Calcium	ppm	ASTM D5185m		0	0	<1
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SiliconppmASTM D5185m<>25<1	Sulfur	ppm	ASTM D5185m		1137	847	1355
SodiumppmASTM D5185m03<1	CONTAMINANTS		method	limit/base	current	history 1	history 2
PotassiumppmASTM D5185m>20<1	Silicon	ppm	ASTM D5185m	>25	<1		2
FLUID DEGRADATIONmethodlimit/basecurrenthistory 1history 2Acid Number (AN)mg KOH/gASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONELIGHTVLITEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Sodium	ppm	ASTM D5185m		0	3	<1
Acid Number (AN)mg KOH/gASTM D80450.560.580.53VISUALmethodlimit/basecurrenthistory 1history 2White Metalscalar*VisualNONENONELIGHTVLITEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	<1	0	0
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Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	VISUAL		method	limit/base	current	history 1	history 2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	White Metal	scalar					
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debrisscalar*VisualNONELIGHTVLITEVLITESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Precipitate	scalar				NONE	
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Silt	scalar	*Visual		NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Debris	scalar		NONE		VLITE	VLITE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar	*Visual			NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

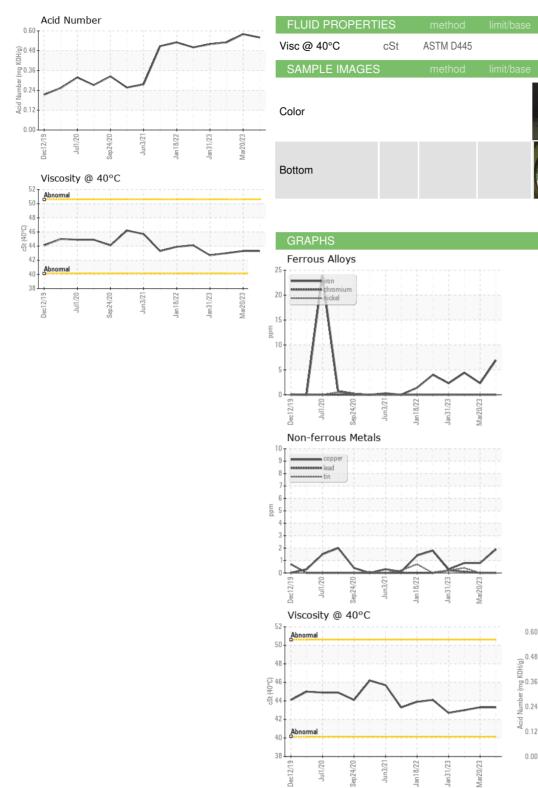


OIL ANALYSIS REPORT

43.3

43.3

43.0



lul1/20 Sen24/20 Jan 31/23 Mar20/23 Jan 18/22 TATE ENGINEERING 3921 Vero Road BALTIMORE, MD US 21227 Contact: JOSH PLITT josh.plitt@tate.com T: (443)992-4413 F:

Acid Number

Dec12/19

: 01 Jun 2023

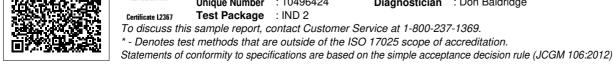
: 02 Jun 2023

Diagnostician : Don Baldridge

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

Received

Diagnosed



Laboratory

Sample No.

Lab Number

Unique Number

Test Package : IND 2

: UCH05861959

: 05861959

: 10496424

Contact/Location: JOSH PLITT - UCTATBAL