

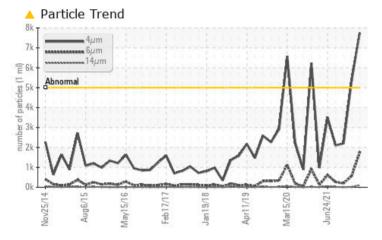
# **PROBLEM SUMMARY**

# **Cranes**

Crane - Mid - Hydraulic System (Slewing) (S/N Sample Tag MA-04002-S2)

PETRO CANADA ATF DEXRON III/MERCON (800 LTR)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RESULTS			
Sample Status		ATTENTI	ON ATTENTION	NORMAL
Particles >4µm	ASTM D7647 >	5000 <b>A 7752</b>	▲ 5384	2207
Particles >6µm	ASTM D7647 >	1300 🔺 <b>1750</b>	563	193
Oil Cleanliness	ISO 4406 (c) >	19/17/14 🔺 20/18/1	4 🔺 20/16/11	18/15/10

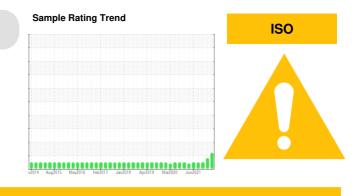
Customer Id: TERHAM Sample No.: PC0052587 Lab Number: 02582135 Test Package: MAR 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

#### HISTORICAL DIAGNOSIS



14 Jun 2023 Diag: Kevin Marson

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

#### 05 Oct 2021 Diag: Kevin Marson



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

02 Aug 2021 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







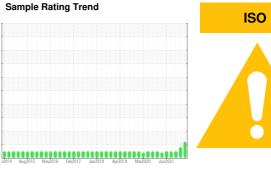


# **OIL ANALYSIS REPORT**

## Area Cranes Crane - Mid - Hydraulic System (Slewing) (S/N Sample Tag MA-04002-S2) Component

Hydraulic System

#### PETRO CANADA ATF DEXRON III/MERCON (800 LTR)



Ninor.       Oil Age       Iva       Client Info       D       D       D       D         Part       Sample Status       Client Info       N.A       N.A       N.A       N.A         Contamination       Sample Status       Image       Image       Client Info       N.A       N.A       N.A         Sample Status       Image       Mathematical Client Info       N.A       ATTENTION       NORMAL         Visit Condition       AN Itendit acceptable for this fluid. The ndition of the oil is suitable for further service.       Method Status       Image       ASTM DB15561       O       O       O       O         Nickle       Dpm       ASTM DB15561       O       O       O       O       O       O         Nickle       Dpm       ASTM DB15561       O       O       O       O       O       O       O         Nickle       Dpm       ASTM DB15561       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O       O	DIAGNOSIS	SAMPLE INFOR		M method	limit/base	current	history1	history2	
Precommend you service he filters on this notion.         Sample Date         Client Info         12 Aug 2023         14 Jun 2023         06 Oct 2021           samponent.         Common the act is an onomal.         On Age         hrs         Client Info         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Becommendation	Sample Number		Client Info		PC0052587	PC0052190	PC416830	
monome.         Client Info         0         0         0           Component wear rates are normal.         Client Info         NA         NA         NA           Component wear rates are normal.         Client Info         NA         NA         NA           Contamination ere is a light amount of sill (particulates < 14) component is accoptable for the fluit. The a Al treat is accoptable for the fluit. The didtion of the oil is accoptable for the fluit. The addition of the oil is accoptable for the fluit. The didtion of the oil is autable for further service.         WEAP METALS         method         Imitbase         Comotion         0         0           Silver         ppm         ASTILDESSm         >00         0         0         0         0           Chromium         ppm         ASTILDESSm         >00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0									
Ohlor.       Oil Age       hrs       Client Info       O       O       O         Bar Component wear rates are normal.       Contamination ere is a light amount of slit (particulates < 14 crons in size) present in the oil.       MA       NA       NA       NA       NA         Bar Component wear rates are normal.       Contamination ere is a light amount of slit (particulates < 14)	component. Resample at the next service interval to		hrs			-			
part       Oli Changad       Client ino       NA       NA       NA         Component war rates are normal.       Sample Status       i       Namele Status       interval       Attention       Normal.         Toris in subpropertin the oil is suitable for further service.       WEAR METALS       method       method       method       interval       Q       0       0       0         AN level is acceptable for think of the oil is suitable for further service.       FO       ASTM 2588       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       <	nonitor.	•							
component wear rates are normal.       Sample Status       Image: Sample Status       ATTENTION       NORMAL         Contamination ere is a light amount of silt (particulates < 14 cons in size) present in the oil. <td>MCAR METALS       method       limit/base       current       history1       history1         PQ       ASTM Diskien       &gt;10       0       0       0       0         e AN level is acceptable for thirs fluid. The ndition of the oil is suitable for further service.       Normal MSTM Diskien       &gt;10       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<td>lear</td><td>-</td><td></td><td></td><td></td><th></th><td></td><td></td></td>	MCAR METALS       method       limit/base       current       history1       history1         PQ       ASTM Diskien       >10       0       0       0       0         e AN level is acceptable for thirs fluid. The ndition of the oil is suitable for further service.       Normal MSTM Diskien       >10       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>lear</td> <td>-</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>	lear	-						
Contamination         Contamination         Contamination         Current         Nistory1         Nistory2           rors in size) present in the oil.         O         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Il component wear rates are normal.	-							
pCq         Notest         of         0         0           id Condition         pm         MSIM 0818/m         >20         2         2         1           AN level is acceptable for this fluid. The ndition of the oil is suitable for further service.         Chromium         pm         MSIM 0818/m         >10         0         0         0         0           Notest is acceptable for further service.         Nikel         pm         ASIM 0818/m         >10         <1	Contamination	WEAR META	LS	method	limit/base	current	history1	history2	
A Nieveli acceptable for this fluid. The number of the oil is suitable for further service.       Promium       ppm       ASTU (58)(30)       >10       0       0       <1	icrons in size) present in the oil.	PQ		ASTM D8184*		0	0	0	
e AN level is acceptable for this fluid. The mixted       pm       ASTM 051561       >10       0       <1	uid Condition	Iron	ppm	ASTM D5185(m)	>20	2	2	1	
Nickel       ppm       ASTN 058(m)       >10       <1       0       <1         Titanium       ppm       ASTN 058(m)       0       0       0       0         Silvor       ppm       ASTN 058(m)       0       0       0       0         Aluminum       ppm       ASTN 058(m)       >20       2       1       1         Lead       ppm       ASTN 058(m)       >20       3       3       3         Tin       ppm       ASTN 058(m)       >10       <1		Chromium	ppm			0	0	0	
Tittanium       ppm       ASTM 2585(m)       I       0       0       0         Silver       ppm       ASTM 2585(m)       >10       <1       <1         Auminium       ppm       ASTM 2585(m)       >20       2       1       1         Copper       ppm       ASTM 2585(m)       >20       3       3       3         Tim       ppm       ASTM 2585(m)       >10       <1       <1       <1         Antimony       ppm       ASTM 2585(m)       >10       <1       <1       <1         Vanadium       ppm       ASTM 2585(m)       <0       0       0       0       0         Boryin       ppm       ASTM 2585(m)       0       0       0       0       0         ADDITIVES       resthod       Imit/base       current       history1       history2         Molybdenum       ppm       ASTM 2585(m)       10.0       82       81       90         Magnesium       ppm       ASTM 2585(m)       0.0       0       0       0       0         Magnesium       ppm       ASTM 2585(m)       0.0       0       0       0       0         Solitor       ppm       <	ondition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1	
Silver       ppm       ASTM DS185/m       >10       <1       <1         Aluminum       ppm       ASTM DS185/m       >20       2       1       1         Lead       ppm       ASTM DS185/m       >20       3       3       3         Tin       ppm       ASTM DS185/m       >20       3       3       3         Tin       ppm       ASTM DS185/m       >10       <1		Titanium				0	0	0	
Aluminum       ppm       ASTM DS185(m)       >10       <1		Silver	ppm	ASTM D5185(m)		0	0	<1	
Lead       ppm       ASTM D5183/m       >20       2       1       1         Copper       ppm       ASTM D5183/m       >20       3       3         Tim       ppm       ASTM D5183/m       >10       <1		Aluminum			>10	<1	<1	<1	
Copper       ppm       ASTM 25185(m)       >20       3       3       3         Tin       ppm       ASTM 05186(m)       510       <1       <1       <1         Antimony       ppm       ASTM 05186(m)       0       0       0       0         Vanadium       ppm       ASTM 05186(m)       0       0       0       0         Berryllium       ppm       ASTM 05186(m)       0       0       0       0         ADDITIVES       method       Imit/base       current       history1       history2         Boron       ppm       ASTM 05186(m)       1.0       8       7       7         Molybdenum       ppm       ASTM 05186(m)       0.0       0       0       0         Manganese       ppm       ASTM 05186(m)       0.0       0       0       0         Suffur       ppm       ASTM 05186(m)       0.0       1.0       1.1       1.1       2.8         Cinc       ppm       ASTM 05186(m)       0.0       1.0       1.4       2.9       2.8         Suffur       ppm       ASTM 05186(m)       2.0       3.6       3.5       3.4         Phosphorus       ppm							1		
Tin       ppm       ASTM D5185(m)       >10       <1							3		
AntimonyppmASTM D5185im000VanadiumppmASTM D5185im0000BerylliumppmASTM D5185im0000CadmiumppmASTM D5185im1082819090ADDITIVESmethodlimit/basecurrenthistory1history290BoronppmASTM D5185im1.082819090BariumppmASTM D5185im0.00000MolybdenumppmASTM D5185im0.00000MaganeseppmASTM D5185im1.0<1									
Vanadium       ppm       ASTM D5185(m)       0       0       0         Beryllium       ppm       ASTM D5185(m)       0       0       0         Cadmium       ppm       ASTM D5185(m)       0       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185(m)       130       82       81       90         Barium       ppm       ASTM D5185(m)       1.0       82       81       90         Molybdenum       ppm       ASTM D5185(m)       0.0       0       0       0         Manganese       ppm       ASTM D5185(m)       1.0       1       1       1         Calcium       ppm       ASTM D5185(m)       2.00       313       2.91       2.88         Zinc       ppm       ASTM D5185(m)       2.60       313       2.91       2.88         Zinc       ppm       ASTM D5185(m)       4.40       821       7.68       85.8         Lithium       ppm       ASTM D5185(m)       2.0       1       1       1         Sulfur       ppm       ASTM D5185(m)       2.0       1									
Beryllium         ppm         ASTM D5/85(m)         0         0         0           Cadmium         ppm         ASTM D5/85(m)         Imit/base         current         history1         history2           Boron         ppm         ASTM D5/85(m)         130         82         81         90           Barium         ppm         ASTM D5/85(m)         130         82         81         90           Barium         ppm         ASTM D5/85(m)         1.0         8         7         7           Molybdenum         ppm         ASTM D5/85(m)         1.0         82         81         90           Maganese         ppm         ASTM D5/85(m)         1.0         8         7         7           Molybdenum         ppm         ASTM D5/85(m)         1.0         1         1         1           Calcium         ppm         ASTM D5/85(m)         2.0         363         2.91         2.88           Zinc         ppm         ASTM D5/85(m)         4.0         1.0         1         1           Sulfur         ppm         ASTM D5/85(m)         2.0         1         1         1           Sulfur         ppm         ASTM D5/85(m)         2.1 <td></td> <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>									
Cadmium       ppm       ASTM D5185(m)       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185(m)       1.30       82       81       90         Barium       ppm       ASTM D5185(m)       1.0       8       7       7         Molybdenum       ppm       ASTM D5185(m)       0.0       0       0       0         Magnesium       ppm       ASTM D5185(m)       0.0       0       0       0         Galcium       ppm       ASTM D5185(m)       2.0       36       35       34         Phosphorus       ppm       ASTM D5185(m)       2.0       313       2.91       2.88         Zince       ppm       ASTM D5185(m)       1.0       1.11       1.10       2.88         Zinfur       ppm       ASTM D5185(m)       2.0       313       2.91       2.88         Zinfur       ppm       ASTM D5185(m)       1.0       1.1       1.1       1.1         Sulfur       ppm       ASTM D5185(m)       2.1       1.1       1.1       1.1       1.1         Sodium       ppm       ASTM D				( )					
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5165(m)         1.30         82         8.1         90           Barium         ppm         ASTM D5165(m)         1.0         8         7         7           Molybdenum         ppm         ASTM D5165(m)         0.0         0         0         0           Manganese         ppm         ASTM D5165(m)         1.0         <1		,							
Boron       ppm       ASTM D5185(m)       1.30       82       81.1       90         Barium       ppm       ASTM D5185(m)       1.0       8       7       7         Molybdenum       ppm       ASTM D5185(m)       0.0       0       0       0         Manganese       ppm       ASTM D5185(m)       0.0       0       0       0         Magnesium       ppm       ASTM D5185(m)       1.0       -1       <1       <1       <1         Calcium       ppm       ASTM D5185(m)       1.0       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1			ρριιι		limit/bacc				
Barium       ppm       ASTM D5185(m)       1.0       8       7       7         Molybdenum       ppm       ASTM D5185(m)       0.0       0       0       0         Manganese       ppm       ASTM D5185(m)       0       0       0       0         Magnesium       ppm       ASTM D5185(m)       1.0       <1       <1       <1         Calcium       ppm       ASTM D5185(m)       2.0       36       35       34         Phosphorus       ppm       ASTM D5185(m)       2.00       36       35       34         Zinc       ppm       ASTM D5185(m)       2.00       313       2.91       2.88         Zinc       ppm       ASTM D5185(m)       4.00       821       7.68       858         Lithium       ppm       ASTM D5185(m)       4.00       821       7.68       858         Silicon       ppm       ASTM D5185(m)       5.1       1       1       1       1         Sodium       ppm       ASTM D5185(m)       >20       1       <1       1       1         Sodium       ppm       ASTM D5185(m)       >20       1       <1       1       1       1       1									
Molybdenum       ppm       ASTM D5185(m)       0.0       0       0         Manganese       ppm       ASTM D5185(m)       1.0       <1									
Maganesse       ppm       ASTM D5185(m)       0       0       0         Magnesium       ppm       ASTM D5185(m)       1.0       <1									
Magnesium       ppm       ASTM D5185(m)       1.0       <1       <1       <1         Calcium       ppm       ASTM D5185(m)       20       36       35       34         Phosphorus       ppm       ASTM D5185(m)       280       313       291       288         Zinc       ppm       ASTM D5185(m)       10       141       129       110         Sulfur       ppm       ASTM D5185(m)       440       821       768       858         Lithium       ppm       ASTM D5185(m)       440       821       768       858         Soliton       ppm       ASTM D5185(m)       440       821       768       858         Lithium       ppm       ASTM D5185(m)       440       821       768       858         Soliton       ppm       ASTM D5185(m)       440       821       768       858         Soliton       ppm       ASTM D5185(m)       440       821       71       1       1         CONTAMINANTS       method       limit/base       current       history1       history2       2       2         Soliton       ppm       ASTM D7647       >5000       A       7752       5384       2		-			0.0				
Calcium       ppm       ASTM D5185(m)       20       36       35       34         Phosphorus       ppm       ASTM D5185(m)       280       313       291       288         Zinc       ppm       ASTM D5185(m)       10       141       129       110         Sulfur       ppm       ASTM D5185(m)       440       821       768       858         Lithium       ppm       ASTM D5185(m)       440       821       <1		•		. ,	4.0				
Phosphorus       ppm       ASTM D5185(m)       280       313       291       288         Zinc       ppm       ASTM D5185(m)       10       141       129       110         Sulfur       ppm       ASTM D5185(m)       440       821       768       858         Lithium       ppm       ASTM D5185(m)       440       821       768       858         Silicon       ppm       ASTM D5185(m)		-							
Zinc       ppm       ASTM D5185(m)       10       141       129       110         Sulfur       ppm       ASTM D5185(m)       440       821       768       858         Lithium       ppm       ASTM D5185(m)       440       821       768       858         Solitor       ppm       ASTM D5185(m)       -       -       1       -       1         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185(m)       >15       1       1       1         Sodium       ppm       ASTM D5185(m)       >15       1       1       1       1         Sodium       ppm       ASTM D5185(m)       >20       1       <1									
Sulfur       ppm       ASTM D5/t85(m)       440       821       768       858         Lithium       ppm       ASTM D5/t85(m)       I       <1       <1         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5/t85(m)       >15       1       1       1       1         Sodium       ppm       ASTM D5/t85(m)       >15       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1									
LithiumppmASTM D5185(m)<				. ,					
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>151111SodiumppmASTM D5185(m)>1511111SodiumppmASTM D5185(m)>201<1			ppm		440				
SiliconppmASTM D5185(m)>151111SodiumppmASTM D5185(m) $3$ 222PotassiumppmASTM D5185(m)>201<1<1<1FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4 $\mu$ mASTM D7647>5000775253842207Particles >6 $\mu$ mASTM D7647>1300 $1750$ 563193Particles >14 $\mu$ mASTM D7647>160101168Particles >21 $\mu$ mASTM D7647>10010Particles >38 $\mu$ mASTM D7647>3000		Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
SodiumppmASTM D5185(m)322PotassiumppmASTM D5185(m)>201<1<1FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4 $\mu$ mASTM D7647>5000775253842207Particles >6 $\mu$ mASTM D7647>13001750563193Particles >14 $\mu$ mASTM D7647>160101168Particles >21 $\mu$ mASTM D7647>402352Particles >38 $\mu$ mASTM D7647>10010Particles >71 $\mu$ mASTM D7647>3000		CONTAMINA	NTS	method	limit/base	current	history1	history2	
SodiumppmASTM D5185(m)322PotassiumppmASTM D5185(m)>201<1		Silicon	ppm	ASTM D5185(m)	>15	1	1	1	
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >5000       ▲ 7752       ▲ 5384       2207         Particles >6µm       ASTM D7647       >1300       ▲ 1750       563       193         Particles >6µm       ASTM D7647       >160       101       16       8         Particles >14µm       ASTM D7647       >160       101       16       8         Particles >21µm       ASTM D7647       >40       23       5       2         Particles >38µm       ASTM D7647       >10       0       1       0         Particles >71µm       ASTM D7647       >3       0       0       0		Sodium		ASTM D5185(m)		3	2	2	
Particles >4 $\mu$ mASTM D7647>5000775253842207Particles >6 $\mu$ mASTM D7647>13001750563193Particles >14 $\mu$ mASTM D7647>160101168Particles >21 $\mu$ mASTM D7647>402352Particles >38 $\mu$ mASTM D7647>10010Particles >71 $\mu$ mASTM D7647>3000		Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1	
Particles >6μm       ASTM D7647       >1300       ▲ 1750       563       193         Particles >14μm       ASTM D7647       >160       101       16       8         Particles >21μm       ASTM D7647       >40       23       5       2         Particles >38μm       ASTM D7647       >10       0       1       0         Particles >71μm       ASTM D7647       >3       0       0       0		FLUID CLEAN		S method	limit/base	current	history1	history2	
Particles >6μm       ASTM D7647       >1300       ▲ 1750       563       193         Particles >14μm       ASTM D7647       >160       101       16       8         Particles >21μm       ASTM D7647       >40       23       5       2         Particles >38μm       ASTM D7647       >10       0       1       0         Particles >71μm       ASTM D7647       >3       0       0       0		Particles >4µm		ASTM D7647	>5000	<b>7752</b>	5384	2207	
Particles >14μm       ASTM D7647       >160       101       16       8         Particles >21μm       ASTM D7647       >40       23       5       2         Particles >38μm       ASTM D7647       >10       0       1       0         Particles >71μm       ASTM D7647       >3       0       0       0									
Particles >21μm         ASTM D7647         >40         23         5         2           Particles >38μm         ASTM D7647         >10         0         1         0           Particles >71μm         ASTM D7647         >3         0         0         0									
Particles >38μm         ASTM D7647         >10         0         1         0           Particles >71μm         ASTM D7647         >3         0         0         0									
Particles >71μm         ASTM D7647         >3         0         0         0									
Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 20/18/14 ▲ 20/16/11 18/15/10		Oil Cleanliness					20/16/11	18/15/10	



🔺 Particle Count

🔺 Particle Trend

Acid Number

Aug6/1

14

214

Apr11/19 .

Feb17/17

an 19/18

Aav15/16

491,520 122,880

120 30 8

8

1) sahicles (1)

0

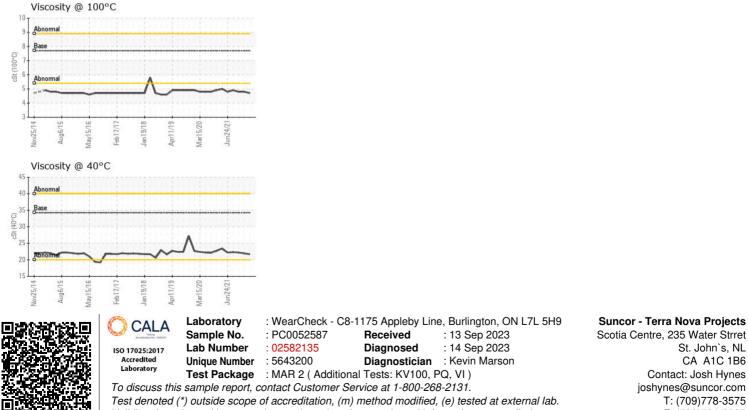
12

Vov25/1

(B/HOX Be 0 umber 0 Acid Ba 0.0

## **OIL ANALYSIS REPORT**

FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	0.98	1.11	0.95
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	VLITE	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*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.26	21.7	21.9	22.2
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	4.7	4.8	4.8
Viscosity Index (VI)	Scale	ASTM D2270*	210	139	145	142
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						
Bottom						
Bottom						



Validity of results and interpretation are based on the sample and information as supplied.

F: (709)724-2835

St. John`s, NL

CA A1C 1B6

Contact: Josh Hynes

T: (709)778-3575