

# **PROBLEM SUMMARY**

Sample Rating Trend

.............

ISO

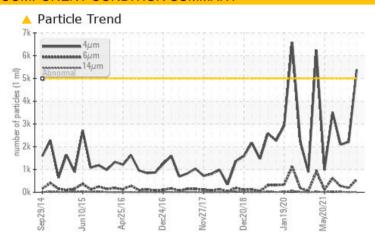
# Cranes [450159533]

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

**Hydraulic System** 

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 TE	ST RESULT	S			
Sample Status			ATTENTION	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	<u></u> 5384	2207	2096
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/16/11</b>	18/15/10	18/15/12

Customer Id: TERHAM Sample No.: PC0052190 Lab Number: 02568258 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

05 Oct 2021 Diag: Kevin Marson

# NORMAL



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.

# view report

# 02 Aug 2021 Diag: Kevin Marson

# NORMAL



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.

# 24 Jun 2021 Diag: Kevin Marson

# NORMAL



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**

Sample Rating Trend

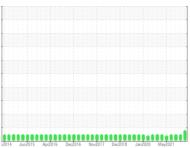
ISO

**Cranes [450159533]** 

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

**Hydraulic System** 

PETRO CANADA ATF DEXRON III/MERCON (800 LTR)





# **DIAGNOSIS**

# Recommendation

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

# Wear

All component wear rates are normal.

# Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

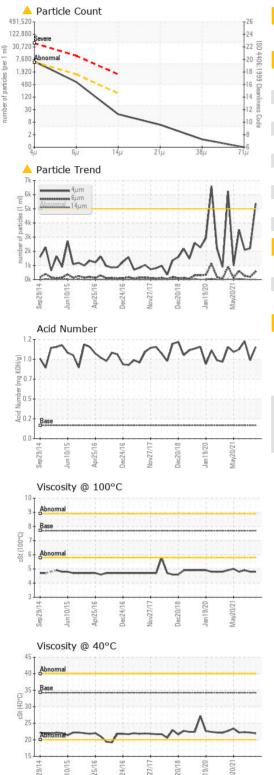
# **Fluid Condition**

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

SAMPLE INFORMATION   method   limit/base   current   history 1   history 2	N (800 LTR)						
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A         N/A           Sample Status         Client Info         N/A         N/A         N/A         N/A         N/A           WEAR METALS         method         limit/base         current         history 1         history 2           PQ         ASTM D5185/m         0         0         0         0           Iron         ppm         ASTM D5185/m         >10         0         0         0           Nickel         ppm         ASTM D5185/m         >10         0         <1	Sample Number		Client Info		PC0052190	PC416830	PC0040539
Oil Age         hrs         Client Info         N/A	Sample Date		Client Info		14 Jun 2023	05 Oct 2021	02 Aug 2021
Oil Changed Satus         Client Info         N/A         P         P         P         ASTM D5185 m         20         1         2         1         1         1         2         1         1         1         2         2         3         3         3         3         3	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         limit/base         current         history 1         history 2           PQ         ASTM D8184*         0         0         0           Iron         ppm         ASTM D8186/m         >20         2         1         1           Chromium         ppm         ASTM D8188/m         >10         0         0         0           Nickel         ppm         ASTM D8188/m         >10         0         <1         <1           Titanium         ppm         ASTM D8188/m         >10         0         <1         <1           Titanium         ppm         ASTM D8186/m         >10         <1         <1         <1           Aluminum         ppm         ASTM D8186/m         >10         <1         <1         <1         <1           Lead         ppm         ASTM D8186/m         >20         3         3         3         3           Copper         ppm         ASTM D8186/m         >20         1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1<	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limit/base         current         history 1         history 2           PQ         ASTM D8184+         0         0         0         0           Iron         ppm         ASTM D8185m         >20         2         1         1           Chromium         ppm         ASTM D8185m         >10         0         0         0           Nickel         ppm         ASTM D8185m         >10         0         <1	Oil Changed		Client Info		N/A	N/A	N/A
PQ	Sample Status				ATTENTION	NORMAL	NORMAL
Iron	WEAR METALS	3	method	limit/base	current	history 1	history 2
Chromium         ppm         ASTM D5185(m)         >10         0         0         0           Nickel         ppm         ASTM D5185(m)         >10         0         <1         <1           Titanium         ppm         ASTM D5185(m)         0         0         0         0           Silver         ppm         ASTM D5185(m)         >0         <1         <1           Aluminum         ppm         ASTM D5185(m)         >20         1         1         <1           Lead         ppm         ASTM D5185(m)         >20         1         1         2           Copper         ppm         ASTM D5185(m)         >20         3         3         3           Tin         ppm         ASTM D5185(m)         >10         <1         <1         <1           Antimony         ppm         ASTM D5185(m)         0         0         0         <1           Vanadium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           Barium         ppm         ASTM D5185(m)         130         81         90	PQ		ASTM D8184*		0	0	0
Chromium         ppm         ASTM D5185(m)         >10         0         0         0           Nickel         ppm         ASTM D5185(m)         10         0         <1         <1           Titlanium         ppm         ASTM D5185(m)         0         0         0         0           Silver         ppm         ASTM D5185(m)         >20         1         <1         <1           Aluminum         ppm         ASTM D5185(m)         >20         1         1         <2           Copper         ppm         ASTM D5185(m)         >20         1         1         2           Copper         ppm         ASTM D5185(m)         >20         3         3         3         3           Tin         ppm         ASTM D5185(m)         >10         <1         <1         <1         <1           Antimony         ppm         ASTM D5185(m)         0         0         0         <1         <1           Vanadium         ppm         ASTM D5185(m)         0         0         0         0         <1           Vanadium         ppm         ASTM D5185(m)         0         0         0         0         <1           Abrophilu	Iron	ppm	ASTM D5185(m)	>20	2	1	1
Nickel         ppm         ASTM D5185(m)         >10         0         <1         <1           Titanium         ppm         ASTM D5185(m)         0         0         0         0           Silver         ppm         ASTM D5185(m)         >10         <1	Chromium		ASTM D5185(m)	>10	0	0	0
Titanium         ppm         ASTM D5185(m)         0         0         0           Silver         ppm         ASTM D5185(m)         10         <1	Nickel		ASTM D5185(m)	>10	0	<1	<1
Silver         ppm         ASTM D5185(m)         0         <1         <1           Aluminum         ppm         ASTM D5185(m)         >10         <1	Titanium		1		0	0	0
Aluminum         ppm         ASTM D5185(m)         >10         <1         <1         <1           Lead         ppm         ASTM D5185(m)         >20         1         1         2           Copper         ppm         ASTM D5185(m)         >20         3         3         3           Tin         ppm         ASTM D5185(m)         0         0         <1	Silver		, ,			<1	<1
Lead         ppm         ASTM D5185(m)         >20         1         1         2           Copper         ppm         ASTM D5185(m)         >20         3         3         3           Tin         ppm         ASTM D5185(m)         >10         <1	Aluminum		, ,	>10		<1	<1
Copper         ppm         ASTM D5185(m)         >20         3         3         3           Tin         ppm         ASTM D5185(m)         >10         <1			, ,				
Tin         ppm         ASTM D5185(m)         >10         <1         <1         <1           Antimony         ppm         ASTM D5185(m)         0         0         <1			1				
Antimony         ppm         ASTM D5185(m)         0         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           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185(m)         1.0         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         <1            Manganese         ppm         ASTM D5185(m)         0.0         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 <th< td=""><td></td><td></td><td>, ,</td><td></td><th></th><td></td><td></td></th<>			, ,				
Vanadium         ppm         ASTM D5185(m)         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185(m)         1.0         7         7         7         7           Barium         ppm         ASTM D5185(m)         1.0         7         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         < 1            Manganese         ppm         ASTM D5185(m)         1.0         < 1         < 1         < 1         < 1           Calcium         ppm         ASTM D5185(m)         2.0         35         34         34           Phosphorus         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         41 <td></td> <td></td> <td>( )</td> <td>7.0</td> <th></th> <td></td> <td></td>			( )	7.0			
Beryllium         ppm         ASTM D5185(m)         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185(m)         130         81         90         88           Barium         ppm         ASTM D5185(m)         1.0         7         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         0         <1           Manganese         ppm         ASTM D5185(m)         0.0         0         0         <1           Magnesium         ppm         ASTM D5185(m)         20         35         34         34           Phosphorus         ppm         ASTM D5185(m)         20         35         34         34           Zinc         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         <1         1	-		, ,				
Cadmium         ppm         ASTM D5185(m)         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185(m)         1.30         81         90         88           Barium         ppm         ASTM D5185(m)         1.0         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         <1			( )				
ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185(m)         130         81         90         88           Barium         ppm         ASTM D5185(m)         1.0         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         0         <1	-						
Boron         ppm         ASTM D5185(m)         130         81         90         88           Barium         ppm         ASTM D5185(m)         1.0         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         0         <1	ADDITIVES	1-1-	. ,	limit/base			
Barium         ppm         ASTM D5185(m)         1.0         7         7         7           Molybdenum         ppm         ASTM D5185(m)         0.0         0         0         <1		nnm					
Molybdenum         ppm         ASTM D5185(m)         0.0         0         <1           Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         1.0         <1         <1         <1           Calcium         ppm         ASTM D5185(m)         20         35         34         34           Phosphorus         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         41         1         1         1           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1           Sodium         ppm         ASTM D5185(m)         >20 <td></td> <td>• •</td> <td>, ,</td> <td></td> <th></th> <td></td> <td></td>		• •	, ,				
Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         1.0         <1			1				
Magnesium         ppm         ASTM D5185(m)         1.0         <1         <1         <1           Calcium         ppm         ASTM D5185(m)         20         35         34         34           Phosphorus         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         41         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1         1           Sodium         ppm         ASTM D5185(m)         >20         <1         <1         1         1           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2	•		, ,	0.0			
Calcium         ppm         ASTM D5185(m)         20         35         34         34           Phosphorus         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         <1	J		. ,	1.0	-		
Phosphorus         ppm         ASTM D5185(m)         280         291         288         284           Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         < 1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1           Sodium         ppm         ASTM D5185(m)         >20         <1	-		, ,				
Zinc         ppm         ASTM D5185(m)         10         129         110         106           Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         <1			, ,				
Sulfur         ppm         ASTM D5185(m)         440         768         858         756           Lithium         ppm         ASTM D5185(m)         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1           Sodium         ppm         ASTM D5185(m)         >20         <1			, ,				
Lithium         ppm         ASTM D5185(m)         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1           Sodium         ppm         ASTM D5185(m)         >20         <1			( /	10	129	110	100
CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185(m)         >15         1         1         1           Sodium         ppm         ASTM D5185(m)         2         2         2           Potassium         ppm         ASTM D5185(m)         >20         <1	Juliui		ACTM D5105(m)	440	760	959	756
Silicon         ppm         ASTM D5185(m)         >15         1         1         1         1           Sodium         ppm         ASTM D5185(m)         2         2         2         2           Potassium         ppm         ASTM D5185(m)         >20         <1	Lithium		. ,	440			
Sodium         ppm         ASTM D5185(m)         2         2         2         2           Potassium         ppm         ASTM D5185(m)         >20         <1		ppm	ASTM D5185(m)		<1	<1	<1
Potassium         ppm         ASTM D5185(m)         >20         <1         <1         1           FLUID CLEANLINESS method limit/base current         history 1         history 2           Particles >4μm         ASTM D7647         >5000         ▲ 5384         2207         2096           Particles >6μm         ASTM D7647         >1300         563         193         266           Particles >14μm         ASTM D7647         >160         16         8         21           Particles >21μm         ASTM D7647         >40         5         2         5           Particles >38μm         ASTM D7647         >10         1         0         0           Particles >71μm         ASTM D7647         >3         0         0         0	CONTAMINAN	ppm TS	ASTM D5185(m)  method	limit/base	<1 current	<1 history 1	<1 history 2
FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4μm         ASTM D7647         >5000         ▲ 5384         2207         2096           Particles >6μm         ASTM D7647         >1300         563         193         266           Particles >14μm         ASTM D7647         >160         16         8         21           Particles >21μm         ASTM D7647         >40         5         2         5           Particles >38μm         ASTM D7647         >10         1         0         0           Particles >71μm         ASTM D7647         >3         0         0         0	CONTAMINAN <sup>T</sup> Silicon	ppm TS ppm	ASTM D5185(m)  method  ASTM D5185(m)	limit/base	<1 current	<1 history 1	<1 history 2
Particles >4μm       ASTM D7647       >5000       ▲ 5384       2207       2096         Particles >6μm       ASTM D7647       >1300       563       193       266         Particles >14μm       ASTM D7647       >160       16       8       21         Particles >21μm       ASTM D7647       >40       5       2       5         Particles >38μm       ASTM D7647       >10       1       0       0         Particles >71μm       ASTM D7647       >3       0       0       0	CONTAMINAN <sup>-</sup> Silicon Sodium	ppm TS ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)	limit/base >15	<1 current 1 2	<1 history 1 1 2	<1 history 2 1 2
Particles >6μm       ASTM D7647       >1300       563       193       266         Particles >14μm       ASTM D7647       >160       16       8       21         Particles >21μm       ASTM D7647       >40       5       2       5         Particles >38μm       ASTM D7647       >10       1       0       0         Particles >71μm       ASTM D7647       >3       0       0       0	CONTAMINAN <sup>-</sup> Silicon Sodium	ppm TS ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)	limit/base >15	<1 current 1 2	<1 history 1 1 2	history 2  1 2
Particles >14μm       ASTM D7647       >160       16       8       21         Particles >21μm       ASTM D7647       >40       5       2       5         Particles >38μm       ASTM D7647       >10       1       0       0         Particles >71μm       ASTM D7647       >3       0       0       0	CONTAMINAN <sup>T</sup> Silicon Sodium Potassium	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	limit/base >15 >20	<1 current 1 2 <1	<1 history 1 1 2 <1	<1 history 2 1 2 1
Particles >21μm       ASTM D7647       >40       5       2       5         Particles >38μm       ASTM D7647       >10       1       0       0         Particles >71μm       ASTM D7647       >3       0       0       0	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method	limit/base >15 >20 limit/base	<1 current 1 2 <1 current	history 1  1 2 <1 history 1	<1 history 2 1 2 1 history 2
Particles >38μm       ASTM D7647       >10       1       0       0         Particles >71μm       ASTM D7647       >3       0       0       0	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method  ASTM D7647	limit/base >15 >20 limit/base >5000	<1     current  1    2    <1     current  ^ 5384	<1 history 1 1 2 <1 history 1 2207	<1 history 2  1 2 1 history 2 2096
Particles >71 $\mu$ m ASTM D7647 >3 $0$ 0	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  Method  ASTM D7647  ASTM D7647	limit/base >15   >20   limit/base >5000   >1300	<1 current  1 2 <1 current  \$\text{current}\$ \$5384 563	<1   history 1   1   2   <1   history 1   2207   193	<1 history 2  1 2 1 history 2 2096 266
	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  Method  ASTM D7647  ASTM D7647  ASTM D7647	limit/base >15	<1 current  1 2 <1 current  5384 563 16	<1   history 1   1   2   <1   history 1   2207   193   8	<1   history 2   1   2   1   history 2   2096   266   21
Oil Cleanliness ISO 4406 (c) >19/17/14 🛕 20/16/11 18/15/10 18/15/12	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 current  1 2 <1 current  \$\times 5384 \\ 563 \\ 16 \\ 5	<1 history 1  1 2 <1 history 1  2207  193 8 2	<1   history 2   1   2   1   history 2   2096   266   21   5
	CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm TS ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	<1 current  1 2 <1 current  \$\times 5384 \ 563 \ 16 5 1	<1 history 1  1 2 <1 history 1 2207 193 8 2 0	<1   history 2   1   2   1   history 2   2096   266   21   5   0



# **OIL ANALYSIS REPORT**



FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	1.11	0.95	1.18
VISUAL		method	limit/base	current	history 1	history 2
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
<b>Emulsified Water</b>	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
				21.9	22.2	22.3
Visc @ 40°C	cSt	ASTM D7279(m)	34.26		4.8	4.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	4.8		
Viscosity Index (VI)	Scale	ASTM D2270*	210	145	142	149
SAMPLE IMAG	ES	method	limit/base	current	history 1	history 2
Color						
Bottom						



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 5605304

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PC0052190 : 02568258

Received Diagnosed

: 06 Jul 2023 : 07 Jul 2023

Diagnostician : Kevin Marson Test Package : MAR 2 (Additional Tests: KV100, PQ, TAN Man, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**Suncor - Terra Nova Projects** Scotia Centre, 235 Water Strret St. John's, NL CA A1C 1B6

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