

# **OIL ANALYSIS REPORT**

SAB2 **SAB2 G25** 

**Turbine Bearing** 

ESSO TERESSO ISO 46 (273 LTR)

# Sample Rating Trend



## **DIAGNOSIS**

#### Recommendation

We recommend an early resample to monitor this condition.

#### Wear

Lead ppm levels are marginal. A sharp increase in the lead level is noted. All other component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

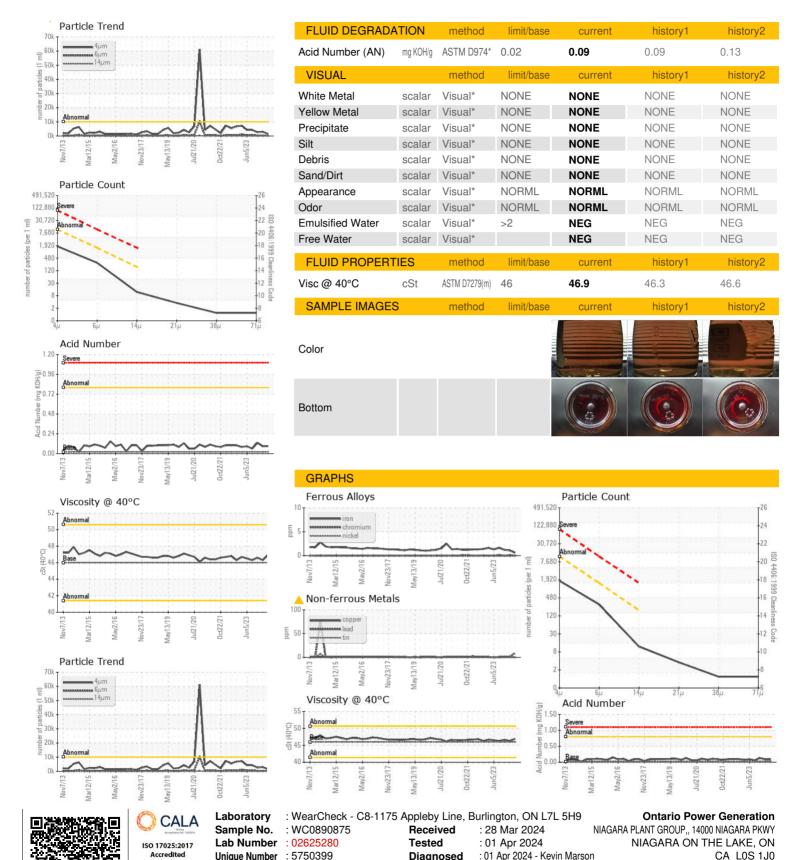
#### **Fluid Condition**

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

SAMPLE INFORMATION	OAMBLE INCOME	A TION:		11 1.0		1.1.	11.
Sample Date	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A           Sample Status         Medical Info         N/A         N/A         N/A           MASTMOSISSIM         Current         Inistory1         history2           Water         WC Method         ≥2         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTMD5IsSim         >7         <1         1         1           Chromium         ppm         ASTMD5IsSim         >2         0         <1         0           Nickel         ppm         ASTMD5IsSim         >2         0         <1         0           Aluminum         ppm         ASTMD5IsSim         >2         0         <1         0           Lead         ppm         ASTMD5IsSim         >3         <1         <1         <1           Copper         ppm         ASTMD5IsSim         >3         <1	Sample Number		Client Info		WC0890875	WC0801626	WC0858107
Oil Age         hrs         Client Info         N/A	Sample Date		Client Info		27 Mar 2024	07 Jan 2024	25 Oct 2023
Oil Changed Sample Status         Client Info         N/A         N/A         N/A         N/A         N/A         N/A         Sample Status         MARGINAL         NORMAL         NORMAL	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         limit/base         current         history1         history2           Water         WC Method         >2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185(m)         >7         <1	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         ≥2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >7         <1	Oil Changed		Client Info		N/A	N/A	N/A
Water         WC Method         >2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185(m)         >7         <1         1         1           Chromium         ppm         ASTM DS185(m)         >2         0         0         0           Nickel         ppm         ASTM DS185(m)         >2         0         <1         0           Silver         ppm         ASTM DS185(m)         >2         0         <1         0           Aluminum         ppm         ASTM DS185(m)         >2         0         <1         0           Lead         ppm         ASTM DS185(m)         >3         <1         <1         <1           Copper         ppm         ASTM DS185(m)         >6         0         0         0           Appm         ASTM DS185(m)         >6         0         0         0           Appm         ASTM DS185(m)         0         0         0         0           Appm         ASTM DS185(m)         0         0         0         0           Cadmium         ppm	Sample Status				MARGINAL	NORMAL	NORMAL
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185(m)         >7         <1         1         1           Chromium         ppm         ASTM DS185(m)         >2         0         0         0           Nickel         ppm         ASTM DS185(m)         >2         0         <1         0           Silver         ppm         ASTM DS185(m)         >2         0         <1         0           Aluminum         ppm         ASTM DS185(m)         >2         0         <1         0           Lead         ppm         ASTM DS185(m)         >3         <1         <1         <1           Lead         ppm         ASTM DS185(m)         >6         0         0         0           Lead         ppm         ASTM DS185(m)         >6         0         0         0           Autimony         ppm         ASTM DS185(m)         0         0         0         0           Vanadium         ppm         ASTM DS185(m)         0         0         0         0           Cadmium         ppm         ASTM DS185(m)         0         <1         0 </th <th>CONTAMINATION</th> <th>I</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINATION	I	method	limit/base	current	history1	history2
Iron	Water		WC Method	>2	NEG	NEG	NEG
Chromium         ppm         ASTM D5185(m)         >2         0         0         0           Nickel         ppm         ASTM D5185(m)         >2         0         <1         0           Titanium         ppm         ASTM D5185(m)         0         0         0         <1           Aluminum         ppm         ASTM D5185(m)         >2         0         <1         0           Lead         ppm         ASTM D5185(m)         >33         4         9         <1         <1           Copper         ppm         ASTM D5185(m)         >33         4         9         <1         <1           Antimony         ppm         ASTM D5185(m)         >6         0         0         0           Antimony         ppm         ASTM D5185(m)         >6         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           Cadmium         ppm         ASTM D5185(m)	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185(m)         >2         0         0         0           Nickel         ppm         ASTM D5185(m)         >2         0         <1         0           Titanium         ppm         ASTM D5185(m)         0         0         0         <1           Aluminum         ppm         ASTM D5185(m)         >2         0         <1         0           Lead         ppm         ASTM D5185(m)         >2         0         <1         <1           Copper         ppm         ASTM D5185(m)         >3         <1         <1         <1           Antimony         ppm         ASTM D5185(m)         >6         0         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         <1         1         1         1         1         1	Iron	maa	ASTM D5185(m)	>7	<1	1	1
Nickel         ppm         ASTM D5185(m)         >2         0         <1         0           Titanium         ppm         ASTM D5185(m)         0         0         0         0           Silver         ppm         ASTM D5185(m)         2         0         <1	Chromium		. ,	>2	0	0	0
Titanium         ppm         ASTM D518S(m)         0         0         0           Silver         ppm         ASTM D518S(m)         0         0         <1			( )		-		
Silver         ppm         ASTM D5185(m)         0         0         <1           Aluminum         ppm         ASTM D5185(m)         >2         0         <1							
Aluminum         ppm         ASTM D518S(m)         >2         0         <1         0           Lead         ppm         ASTM D518S(m)         >33         ▲ 9         <1			, ,				
Lead         ppm         ASTM D5185(m)         >33         ■ 9         <1         <1           Copper         ppm         ASTM D5185(m)         >3         <1         <1         <1           Tin         ppm         ASTM D5185(m)         >6         0         0         0           Antimony         ppm         ASTM D5185(m)         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         <1         0         <1           Boron         ppm         ASTM D5185(m)         0         <1         0         <1         1           Boron         ppm         ASTM D5185(m)         0         0         0         <1         1			. ,	>2			
Copper         ppm         ASTM D5185(m)         >3         <1			,		-		
Tin         ppm         ASTM D5185(m)         >6         0         0         0           Antimony         ppm         ASTM D5185(m)         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         <1         0         <1           Barium         ppm         ASTM D5185(m)         0         0         0         <1         1           Molybdenum         ppm         ASTM D5185(m)         0         0         0         <1         <1           Magnesium         ppm         ASTM D5185(m)         0         0         0         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1							
Antimony         ppm         ASTM D5185(m)         0         0         0           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         history1         history2           Boron         ppm         ASTM D5185(m)         0         0         0         <1           Barium         ppm         ASTM D5185(m)         0         0         0         <1           Molybdenum         ppm         ASTM D5185(m)         0         0         0         <1           Manganese         ppm         ASTM D5185(m)         0         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0         0           Calcium         ppm         ASTM D5185(m)         0         0         0         1         -1         -1           Phosphorus         ppm         ASTM D5185(m)         0         2         2         2			( )				
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         history1         history2           Boron         ppm         ASTM D5185(m)         0         <1         0         <1           Barium         ppm         ASTM D5185(m)         0         0         0         <1           Molybdenum         ppm         ASTM D5185(m)         0         0         0         <1           Magnesium         ppm         ASTM D5185(m)         0         0         0         0           Galcium         ppm         ASTM D5185(m)         0         0         0         0           Quifur         ppm         ASTM D5185(m)         0         0         <1         <1           Posphorus         ppm         ASTM D5185(m)         0         2         2         2           Sulfur         ppm         ASTM D5185(m)         1596         1343         1276           Lithium <th></th> <td></td> <td>. ,</td> <td></td> <th></th> <td></td> <td></td>			. ,				
Beryllium	•		( /		-		
Cadmium         ppm         ASTM D5185(m)         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         <1							
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0         <1	-		, ,				
Boron         ppm         ASTM D5185(m)         0         <1	Gaarriani	ррии	NOTHI BOTOO(III)		•	· ·	
Barium   ppm   ASTM D5185(m)   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ADDITIVES		mothod	limit/bass	ourront	hiotonyt	hiotory
Molybdenum         ppm         ASTM D5185(m)         0         0         0         0           Manganese         ppm         ASTM D5185(m)         0         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0         0           Calcium         ppm         ASTM D5185(m)         0         0         <1						,	•
Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0         0           Calcium         ppm         ASTM D5185(m)         0         0         <1         <1           Phosphorus         ppm         ASTM D5185(m)         2.4         1         2         2           Zinc         ppm         ASTM D5185(m)         0         2         2         2         2           Sulfur         ppm         ASTM D5185(m)         0         2         2         2         2           Lithium         ppm         ASTM D5185(m)         <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	Boron		ASTM D5185(m)		<1	0	<1
Magnesium         ppm         ASTM D5185(m)         0         0         0         0           Calcium         ppm         ASTM D5185(m)         0         0         <1         <1           Phosphorus         ppm         ASTM D5185(m)         2.4         1         2         2           Zinc         ppm         ASTM D5185(m)         0         2         2         2         2           Sulfur         ppm         ASTM D5185(m)         1596         1343         1276         1           Lithium         ppm         ASTM D5185(m)         <1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         >20         <1         <1         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647 <th>Boron Barium</th> <td>ppm</td> <td>ASTM D5185(m) ASTM D5185(m)</td> <td>0</td> <th>&lt;1 0</th> <td>0</td> <td>&lt;1 &lt;1</td>	Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	<1 0	0	<1 <1
Calcium         ppm         ASTM D5185(m)         0         <1         <1           Phosphorus         ppm         ASTM D5185(m)         2.4         1         2         2           Zinc         ppm         ASTM D5185(m)         0         2         2         2           Sulfur         ppm         ASTM D5185(m)         1596         1343         1276           Lithium         ppm         ASTM D5185(m)         <1	Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0	0 0 0	<1 <1 0
Phosphorus         ppm         ASTM D5185(m)         2.4         1         2         2           Zinc         ppm         ASTM D5185(m)         0         2         2         2           Sulfur         ppm         ASTM D5185(m)         1596         1343         1276           Lithium         ppm         ASTM D5185(m)         < 1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0 0	0 0 0 0	<1 <1 0
Zinc         ppm         ASTM D5185(m)         0         2         2         2           Sulfur         ppm         ASTM D5185(m)         1596         1343         1276           Lithium         ppm         ASTM D5185(m)         <1	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0 0 0	0 0 0 0	<1 <1 0 0
Sulfur         ppm         ASTM D5185(m)         1596         1343         1276           Lithium         ppm         ASTM D5185(m)         <1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m)	0 0 0	<1 0 0 0 0 0	0 0 0 0 0 0 <1	<1 <1 0 0 0 0 <1
Lithium         ppm         ASTM D5185(m)         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 2.4	<1 0 0 0 0 0 0	0 0 0 0 0 0 <1 2	<1 <1 0 0 0 0 <1 2
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         0         0         0           Potassium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 2.4	<1 0 0 0 0 0 0 1	0 0 0 0 0 0 <1 2	<1 <1 0 0 0 0 <1 2 2 2
Silicon         ppm         ASTM D5185(m)         >20         4         4         5           Sodium         ppm         ASTM D5185(m)         0         0         0         0           Potassium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 2.4	<1 0 0 0 0 0 0 1 2 1596	0 0 0 0 0 0 <1 2 2 1343	<1 <1 0 0 0 0 <1 2 2 1276
Sodium         ppm         ASTM D5185(m)         0         0         0           Potassium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 2.4	<1 0 0 0 0 0 0 1 2 1596	0 0 0 0 0 0 <1 2 2 1343	<1 <1 0 0 0 0 <1 2 2 1276
Potassium         ppm         ASTM D5185(m)         >20         <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 2.4	<1 0 0 0 0 0 1 2 1596	0 0 0 0 0 <1 2 2 1343	<1 0 0 0 0 <1 2 2 1276
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000         1558         2925         2589           Particles >6μm         ASTM D7647         >1300         251         374         349           Particles >14μm         ASTM D7647         >160         10         7         11           Particles >21μm         ASTM D7647         >40         3         3         4           Particles >38μm         ASTM D7647         >10         1         1         1           Particles >71μm         ASTM D7647         >3         1         0         1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 2.4 0	<1 0 0 0 0 0 0 1 2 1596 <1	0 0 0 0 0 0 <1 2 2 1343 <1	<1 <1 0 0 0 0 0 <1 2 2 1276 <1 history2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m)	0 0 0 0 2.4 0	<1 0 0 0 0 0 0 1 2 1596 <1	0 0 0 0 0 0 <1 2 2 1343 <1 history1	<1 <1 0 0 0 0 0 <1 2 2 1276 <1 history2 5
Particles >6μm       ASTM D7647       >1300       251       374       349         Particles >14μm       ASTM D7647       >160       10       7       11         Particles >21μm       ASTM D7647       >40       3       3       4         Particles >38μm       ASTM D7647       >10       1       1       1         Particles >71μm       ASTM D7647       >3       1       0       1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 2.4 0	<1 0 0 0 0 0 0 1 2 1596 <1 current	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4	<1 <1 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0
Particles >14μm       ASTM D7647       >160       10       7       11         Particles >21μm       ASTM D7647       >40       3       3       4         Particles >38μm       ASTM D7647       >10       1       1       1         Particles >71μm       ASTM D7647       >3       1       0       1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 2.4 0	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1	<1 <1 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0
Particles >21μm       ASTM D7647       >40       3       3       4         Particles >38μm       ASTM D7647       >10       1       1       1         Particles >71μm       ASTM D7647       >3       1       0       1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4 0 limit/base >20 limit/base	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1	<1 <1 0 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0 history2
Particles >38μm       ASTM D7647       >10       1       1       1         Particles >71μm       ASTM D7647       >3       1       0       1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m)	0 0 0 0 2.4 0 limit/base >20 limit/base >10000	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1 current 1558	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1 history1	<1 <1 0 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0 history2 2589
Particles >38μm       ASTM D7647       >10       1       1       1         Particles >71μm       ASTM D7647       >3       1       0       1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m)	0 0 0 0 2.4 0 limit/base >20 limit/base >10000 >1300	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1 current 1558 251	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1 history1 2925 374	<1 <1 0 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0 history2 2589 349
Particles >71μm ASTM D7647 >3 <b>1</b> 0 1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)	0 0 0 0 2.4 0 limit/base >20 limit/base >10000 >1300 >160	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1 current 1558 251 10	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1 history1 2925 374 7	<1 <1 0 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0 0 history2 2589 349 11
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  METHOD  ASTM D5185(m)  ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 2.4 0 limit/base >20 limit/base >10000 >1300 >160 >40	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1 current 1558 251 10 3	0 0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1 history1 2925 374 7	<1 <1 0 0 0 0 0 0 0 1276 <1 2 2 1276 <1 history2 5 0 0 0 history2 2589 349 11 4
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINI Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  METHOD  ASTM D5185(m)  METHOD  ASTM D5185(m)  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647	0 0 0 2.4 0 limit/base >20 limit/base >10000 >1300 >160 >40 >10	<1 0 0 0 0 0 1 2 1596 <1 current 4 0 <1 current 1558 251 10 3 1	0 0 0 0 0 0 <1 2 2 1343 <1 history1 4 0 <1 history1 2925 374 7	<1 <1 0 0 0 0 0 0 0 <1 2 2 1276 <1 history2 5 0 0 0 history2 2589 349 11 4 1



# **OIL ANALYSIS REPORT**



Test Package : IND 2 (Additional Tests: TAN Man)

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

T: (905)357-0322

F: (905)357-6558

Contact: Alex Courtemanche

alex.courtemanche@opg.com