

## **OIL ANALYSIS REPORT**



Machine Id **C-808** Component Gearbox Fluid MOBIL SHC 630 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

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

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

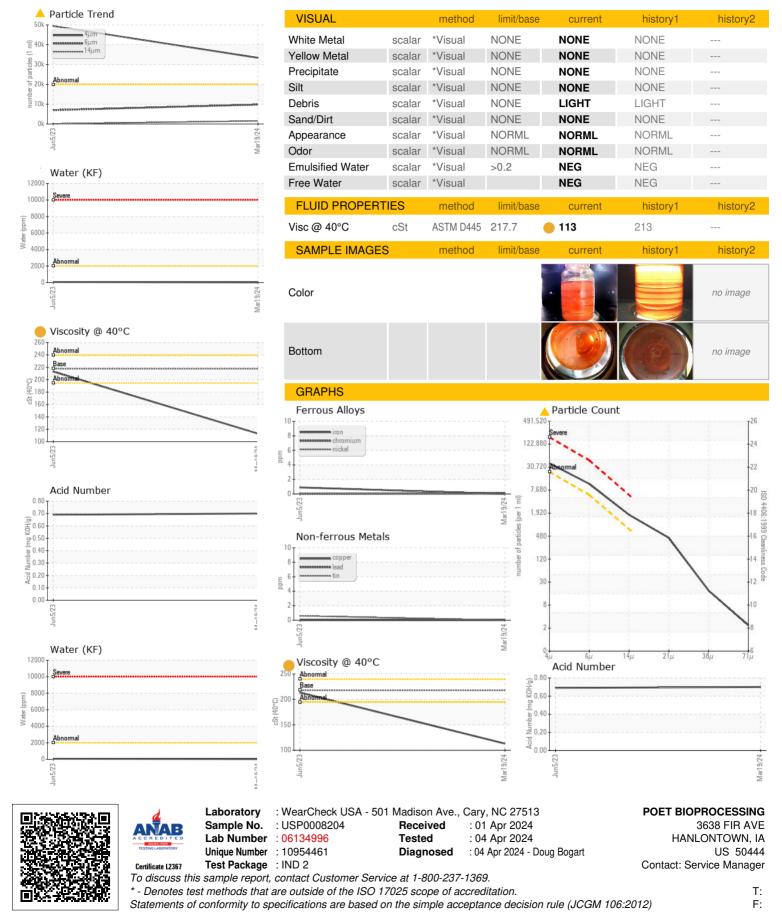
The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

Iron         ppm         ASTM D5185m         >200         0         <1	Sample Date         Client Info         19 Mar 2024         05 Jun 2023            Machine Age         hrs         Client Info         0         0            Oil Age         hrs         Client Info         0         0            Sample Status         Client Info         N/A         N/A         ABNORMAL         ABNORMAL            WEAR METALS         method         Imit/base         current         History1         history1           Iron         ppm         ASTM D5185m         >200         0         <1            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         >100         0             Cadmium         ppm         ASTM D5185m         >200         0             Aduminum         ppm         ASTM D5185m         >100         0         0            Cadmium         ppm         ASTM D5185m         >200         0             Aduminum         ppm         ASTM D5185m         0         0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0            Oil Age         hrs         Client Info         N/A         N/A            Sample Status         Client Info         N/A         N/A         N/A            WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >15         0         0            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         >15         0         0            Aluminum         ppm         ASTM D5185m         >25         0         0            Capper         ppm         ASTM D5185m         >20         0             Adminum         ppm         ASTM D5185m         25         0             Vanadium         ppm         ASTM D5185m         0         0             Adminum         ppm         ASTM D5185m         0         0	Machine Age         hrs         Client Info         0         0            Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         N/A         N/A         N/A            Sample Status         Imit/base         current         history1         history1         history1           Iron         ppm         ASIM D5185m         >200         0         <1	Sample Number		Client Info		USP0008204	USP243014	
Oil Age         Inrs         Client Info         0         0            Oil Changed         Client Info         NA         N/A         N/A            Sample Status         Imitibase         current         history1         history2           Iron         ppm         ASTM D5185m         >200         0         <1	Oil Age         hrs         Client Info         0            Oil Changed         Client Info         N/A         N/A            Sample Status         Imit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Kron         ppm         ASTM D5185m         >200         0         <1	Sample Date		Client Info		19 Mar 2024	05 Jun 2023	
Oil Changed         Client Info         N/A         N/A         ABNORMAL         ABNORMAL <t< td=""><td>Oil Changed         Client Info         N/A         N/A         ABNORMAL         ABNORMAL           Sample Status         method         limit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         &gt;200         0         &lt;1            Chromium         ppm         ASTM D5185m         &gt;200         0         0            Silver         ppm         ASTM D5185m         &gt;25         0         0            Aluminum         ppm         ASTM D5185m         &gt;200         0         0            Aluminum         ppm         ASTM D5185m         &gt;200         0         0            Cadmium         ppm         ASTM D5185m         &gt;200         0         0            Cadmium         ppm         ASTM D5185m         &gt;200         0         0            Admanum         ppm         ASTM D5185m         0         0         0        </td><td>Machine Age</td><td>hrs</td><td>Client Info</td><td></td><td>0</td><td>0</td><td></td></t<>	Oil Changed         Client Info         N/A         N/A         ABNORMAL         ABNORMAL           Sample Status         method         limit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >200         0         <1            Chromium         ppm         ASTM D5185m         >200         0         0            Silver         ppm         ASTM D5185m         >25         0         0            Aluminum         ppm         ASTM D5185m         >200         0         0            Aluminum         ppm         ASTM D5185m         >200         0         0            Cadmium         ppm         ASTM D5185m         >200         0         0            Cadmium         ppm         ASTM D5185m         >200         0         0            Admanum         ppm         ASTM D5185m         0         0         0	Machine Age	hrs	Client Info		0	0	
Sample Status         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >200         0         <1	Sample Status         method         limit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >200         0         <1	Oil Age	hrs	Client Info		0	0	
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >200         0         <1	WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >200         0         <1	Oil Changed		Client Info		N/A	N/A	
Iron         ppm         ASTM D5185m         >200         0         <1            Chromium         ppm         ASTM D5185m         >15         <1	Iron         ppm         ASTM D5185m         >200         0         <1	-				ABNORMAL	ABNORMAL	
Dromium         ppm         ASTM D5185m         >15         <1         0            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         20         0            Aduminum         ppm         ASTM D5185m         >225         0         0            Lead         ppm         ASTM D5185m         >220         0         0            Vanadium         ppm         ASTM D5185m         >200         0         0	Chromium         ppm         ASTM D5185m         >15         <1         0            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         0         0             Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >200         0             Vanadium         ppm         ASTM D5185m         0         0         0            Cadmium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         <-1	WEAR METALS		method	limit/base	current	history1	history2
Dromium         ppm         ASTM D5185m         >15         <1         0            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         0         0            Aduminum         ppm         ASTM D5185m         >225         0         0            Lead         ppm         ASTM D5185m         >200         0         0	Dromium         ppm         ASTM D5185m         >15         <1         0            Nickel         ppm         ASTM D5185m         >15         0         0            Silver         ppm         ASTM D5185m         0         0             Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >200         0         0            Copper         ppm         ASTM D5185m         >200         0             Vanadium         ppm         ASTM D5185m         >200         0             Addminum         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history1           Barium         ppm         ASTM D5185m         0              Addybenum         ppm         ASTM D5185m         0         -	Iron	maa	ASTM D5185m	>200	0	<1	
Nickel         ppm         ASTM D5185m         >15         0         0            Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >25         0         0            Aluminum         ppm         ASTM D5185m         >200         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Cadmium         ppm         ASTM D5185m         >25         0         <1	Nickel         ppm         ASTM D5185m         >15         0         0            Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         25         0         0            Aluminum         ppm         ASTM D5185m         >200         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Cadmium         ppm         ASTM D5185m         >200         0         0            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Maganese         ppm         ASTM D5185m         0         0            Maganesium         ppm         ASTM D5185m         <1	Chromium			>15	-	0	
Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >25         0         0            Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >200         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >200         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0            Maganese         ppm         ASTM D5185m         0            Magnesium         ppm         ASTM D5185m         0            Calcium         ppm         ASTM D5185m         0            Magnesium         ppm         ASTM D5185m         -1         -1            Calcium         ppm         ASTM D5185m         0         0<	Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >25         0         0            Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >100         0         0            Copper         ppm         ASTM D5185m         >25         0         <11							
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Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >100         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >200         0         0            Cadmium         ppm         ASTM D5185m         0         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0            Maganese         ppm         ASTM D5185m         0         0            Maganese         ppm         ASTM D5185m         0         <1	Aluminum         ppm         ASTM D5185m         >25         0         0            Lead         ppm         ASTM D5185m         >100         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >25         0         <1					-		
Lead         ppm         ASTM D5185m         >100         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Tin         ppm         ASTM D5185m         >25         0         <1	Lead         ppm         ASTM D5185m         >100         0         0            Copper         ppm         ASTM D5185m         >200         0         0            Vanadium         ppm         ASTM D5185m         >25         0         <1				> 25	-		
Copper         ppm         ASTM D5185m         >200         0         0            Tin         ppm         ASTM D5185m         >25         0         <1	Copper         ppm         ASTM D5185m         >200         0         0            Tin         ppm         ASTM D5185m         >25         0         <1							
Tin       ppm       ASTM D5185m       >25       0       <1          Vanadium       ppm       ASTM D5185m       0       0       0          Cadmium       ppm       ASTM D5185m       0       0       0          ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0       0          Barium       ppm       ASTM D5185m       0       0       0          Magnese       ppm       ASTM D5185m       0       0           Magnesium       ppm       ASTM D5185m       0       <1           Calcium       ppm       ASTM D5185m       469       492          Zinc       ppm       ASTM D5185m       <14       15          Sulfur       ppm       ASTM D5185m       <20       0       0          Sulfur       ppm       ASTM D5185m       >50       12       35          Sodium       ppm       ASTM D5185m       >20       0       0 <t< td=""><td>Tin         ppm         ASTM D5185m         &gt;25         0         &lt;1            Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0             Manganesum         ppm         ASTM D5185m         0         -1            Calcium         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         41         0            Sulfur         ppm         ASTM D5185m         14         15            Sulfur         ppm         ASTM D5185m         &gt;50         12         35            Sulfur         ppm         ASTM D5185m         &gt;20         0         &lt;</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<>	Tin         ppm         ASTM D5185m         >25         0         <1            Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0             Manganesum         ppm         ASTM D5185m         0         -1            Calcium         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         41         0            Sulfur         ppm         ASTM D5185m         14         15            Sulfur         ppm         ASTM D5185m         >50         12         35            Sulfur         ppm         ASTM D5185m         >20         0         <					-		
Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Marganese         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         0         <1	Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Marganese         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         0         <11            Calcium         ppm         ASTM D5185m         0         <11            Magnesium         ppm         ASTM D5185m         <11         <1            Calcium         ppm         ASTM D5185m         <1469         492            Sulfur         ppm         ASTM D5185m         <14         15            Sulfur         ppm         ASTM D5185m         <50         12         35            Solicon         ppm         ASTM D5185m         >20         0         <							
Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0         <1            Magnesium         ppm         ASTM D5185m         0         <1	Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Magnese         ppm         ASTM D5185m         0         -1            Magnesium         ppm         ASTM D5185m         <1				>20			
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         0         -1            Magnesium         ppm         ASTM D5185m         0         -1            Calcium         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         469         492            Sulfur         ppm         ASTM D5185m         41         15            Sulfur         ppm         ASTM D5185m         21         0            Sodium         ppm         ASTM D5185m         0         0            Sodium         ppm         ASTM D5185m         >0         0            Potassium         ppm         ASTM D5185m         >0         0	ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1							
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0          0           Magnesium         ppm         ASTM D5185m         0         <1	Boron         ppm         ASTM D5185m         0         0	Cadmium	ppm	ASTM D5185m		0	0	
Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0         <1	Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         <1	Molybdenum       ppm       ASTM D5185m       0       0          Manganese       ppm       ASTM D5185m       1          Magnesium       ppm       ASTM D5185m       0           Calcium       ppm       ASTM D5185m       1           Calcium       ppm       ASTM D5185m       1         Calcium       ppm       ASTM D5185m       1        Calcium       ppm       ASTM D5185m       1       0        Calcium       ppm       ASTM D5185m       1       0        Calcium       ppm       ASTM D5185m       1       0        CoNTAMINANTS       method       limit/base       current       history1       history1       history1       history1       Notes        CoNTAMINANTS       Std D5185m       0       0       0        CoNTAMINANTS       Std D5185m       0       0        CoNTAMINANTS       Std D5185m       0       0       0	Boron	ppm	ASTM D5185m		0	0	
Manganese         ppm         ASTM D5185m         <1         <1            Magnesium         ppm         ASTM D5185m         0         <1	Manganese         ppm         ASTM D5185m         <1         <1         <1         <           Magnesium         ppm         ASTM D5185m         0         <1	Barium	ppm	ASTM D5185m		0	0	
Magnesium         ppm         ASTM D5185m         0         <1            Calcium         ppm         ASTM D5185m         <1	Magnesium         ppm         ASTM D5185m         0         <1            Calcium         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		0	0	
Calcium         ppm         ASTM D5185m         <1         <1            Phosphorus         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         <1	Calcium         ppm         ASTM D5185m         <1         <1            Phosphorus         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         <1	Manganese	ppm	ASTM D5185m		<1	<1	
Phosphorus       ppm       ASTM D5185m       469       492          Zinc       ppm       ASTM D5185m       <1	Phosphorus         ppm         ASTM D5185m         469         492            Zinc         ppm         ASTM D5185m         <1	Magnesium	ppm	ASTM D5185m		0	<1	
Zinc         ppm         ASTM D5185m         <1         0            Sulfur         ppm         ASTM D5185m         14         15            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >50         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >0.2         0.002         0.006            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >2000 <b>33365</b> 49412            Particles >6µm         ASTM D7647         >640 <b>1524</b> 88            Particles >21µm         ASTM D7647         160 <b>380</b> 8	Zinc       ppm       ASTM D5185m       <1       0          Sulfur       ppm       ASTM D5185m       14       15          CONTAMINANTS       method       limit/base       current       history1       history1         Silicon       ppm       ASTM D5185m       >50       12       35        35         Sodium       ppm       ASTM D5185m       >20       0       0        0         Potassium       ppm       ASTM D5185m       >20       0       0        0         Water       %       ASTM D5185m       >20       0       0        0         ppm Water       ppm       ASTM D6304       >0.2       0.002       0.006          FLUID CLEANLINESS       method       limit/base       current       history1       history1         Particles >4µm       ASTM D7647       >20000       333655       49412          Particles >6µm       ASTM D7647       >5000       9780       6972          Particles >1µm       ASTM D7647       >640       1524       88          Particles >21µm       ASTM D764	Calcium	ppm	ASTM D5185m		<1	<1	
Sulfur         ppm         ASTM D5185m         14         15            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         12         35          35           Sodium         ppm         ASTM D5185m         >50         12         35          35           Potassium         ppm         ASTM D5185m         >20         0         0          35           Water         %         ASTM D5185m         >20         0.002         0.006          35           ppm Water         ppm         ASTM D6304         >0.2         0.002         0.006          35           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         4         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972             Particles >1µm         ASTM D7647         >640         1524         88	Sulfur         ppm         ASTM D5185m         14         15            CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >50         12         35            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D50304         >0.2         0.0002         0.006            ppm Water         ppm         ASTM D6304         >20.00         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >5000         ▲ 9780         6972            Particles >14µm         ASTM D7647         >640         ▲ 1524         88            Particles >21µm         ASTM D7647         >160         380         8 <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>469</td> <td>492</td> <td></td>	Phosphorus	ppm	ASTM D5185m		469	492	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >20         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.0002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >38µm         ASTM D7647         >10         2	CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >50         12         35            Potassium         ppm         ASTM D5185m         >20         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972            Particles >1µm         ASTM D7647         >640         1524         88            Particles >38µm         ASTM D7647         >10         2	Zinc	ppm	ASTM D5185m		<1	0	
Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         0         0          0           Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         ▲         33365         ▲ 49412            Particles >6µm         ASTM D7647         >20000         ▲         33365         ▲ 49412            Particles >4µm         ASTM D7647         >640         ▲         1524         88            Particles >21µm         ASTM D7647         >160         ▲         380         8            Particles >38µm         ASTM D7647         >10         2         0             Oil Cleanliness <td>Silicon         ppm         ASTM D5185m         &gt;50         12         35            Sodium         ppm         ASTM D5185m         &gt;20         0         0          0           Potassium         ppm         ASTM D5185m         &gt;20         0         0          0           Water         %         ASTM D6304         &gt;0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         &gt;2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles &gt;4µm         ASTM D7647         &gt;20000         4         33365         4 9412            Particles &gt;6µm         ASTM D7647         &gt;5000         4         9780         6972            Particles &gt;14µm         ASTM D7647         &gt;640         1524         88            Particles &gt;21µm         ASTM D7647         &gt;160         380         8            Particles &gt;38µm         ASTM D7647         &gt;10         2         0            Oil Cleanliness         ISO 4406 (c</td> <td>Sulfur</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>14</td> <td>15</td> <td></td>	Silicon         ppm         ASTM D5185m         >50         12         35            Sodium         ppm         ASTM D5185m         >20         0         0          0           Potassium         ppm         ASTM D5185m         >20         0         0          0           Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         4         33365         4 9412            Particles >6µm         ASTM D7647         >5000         4         9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >21µm         ASTM D7647         >160         380         8            Particles >38µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c	Sulfur	ppm	ASTM D5185m		14	15	
Sodium         ppm         ASTM D5185m         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >5000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >640         ▲ 1524         88            Particles >14µm         ASTM D7647         >160         ▲ 380         8            Particles >38µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1 </td <td>Sodium         ppm         ASTM D5185m         0         0            Potassium         ppm         ASTM D5185m         &gt;20         0         0            Water         %         ASTM D6304         &gt;0.2         0.0002         0.006            ppm Water         ppm         ASTM D6304         &gt;2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles &gt;4µm         ASTM D7647         &gt;20000         ▲ 33365         ▲ 49412            Particles &gt;6µm         ASTM D7647         &gt;20000         ▲ 33365         ▲ 49412            Particles &gt;6µm         ASTM D7647         &gt;5000         ▲ 9780         6972            Particles &gt;14µm         ASTM D7647         &gt;640         ▲ 1524         88            Particles &gt;21µm         ASTM D7647         &gt;160         ▲ 380         8            Particles &gt;38µm         ASTM D7647         &gt;10         2         0            Oil Cleanliness         ISO 4406 (c)         &gt;21/19/16         22/20/18         23/20/14</td> <td>CONTAMINANTS</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	Sodium         ppm         ASTM D5185m         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.0002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >20000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >5000         ▲ 9780         6972            Particles >14µm         ASTM D7647         >640         ▲ 1524         88            Particles >21µm         ASTM D7647         >160         ▲ 380         8            Particles >38µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium       ppm       ASTM D5185m       >20       0       0          Water       %       ASTM D6304       >0.2       0.002       0.006          ppm       Water       ppm       ASTM D6304       >2000       24       67.9          FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >20000       ▲ 33365       ▲ 49412          Particles >6µm       ASTM D7647       >20000       ▲ 33365       ▲ 49412          Particles >6µm       ASTM D7647       >6400       ▲ 1524       88          Particles >14µm       ASTM D7647       >160       ▲ 380       8          Particles >21µm       ASTM D7647       >10       2       0          Particles >38µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Potassium         ppm         ASTM D5185m         >20         0         0            Water         %         ASTM D6304         >0.2         0.002         0.006            ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         ▲ 33365         ▲ 49412            Particles >6µm         ASTM D7647         >5000         ▲ 9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >21µm         ASTM D7647         >160         380         8            Particles >38µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1	Silicon	ppm	ASTM D5185m	>50	12	35	
Water       %       ASTM D6304       >0.2       0.002       0.006          ppm Water       ppm       ASTM D6304       >2000       24       67.9          FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >20000       ▲       33365       ▲       49412          Particles >6µm       ASTM D7647       >5000       ▲       9780       6972          Particles >14µm       ASTM D7647       >640       ▲       1524       88          Particles >21µm       ASTM D7647       >160       ▲       380       8          Particles >38µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Water       %       ASTM D6304       >0.2       0.002       0.006          ppm Water       ppm       ASTM D6304       >2000       24       67.9          FLUID CLEANLINESS       method       limit/base       current       history1       history1         Particles >4µm       ASTM D7647       >20000       ▲       33365       ▲       49412          Particles >6µm       ASTM D7647       >5000       ▲       9780       6972          Particles >14µm       ASTM D7647       >640       ▲       1524       88          Particles >21µm       ASTM D7647       >160       ▲       380       8          Particles >38µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history1	Sodium	ppm	ASTM D5185m		0	0	
Water       %       ASTM D6304       >0.2       0.002       0.006          ppm Water       ppm       ASTM D6304       >2000       24       67.9          FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >20000       33365       49412          Particles >6µm       ASTM D7647       >20000       33365       6972          Particles >6µm       ASTM D7647       >640       1524       88          Particles >14µm       ASTM D7647       >160       380       8          Particles >21µm       ASTM D7647       >10       2       0          Particles >38µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Water         %         ASTM D6304         >0.2         0.002         0.006            ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >2000         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >21µm         ASTM D7647         >160         380         8            Particles >38µm         ASTM D7647         >40         16         1            Particles >71µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1	Potassium	ppm	ASTM D5185m	>20	0	0	
ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >21µm         ASTM D7647         >160         380         8            Particles >38µm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history2	ppm Water         ppm         ASTM D6304         >2000         24         67.9            FLUID CLEANLINESS         method         limit/base         current         history1         history1           Particles >4µm         ASTM D7647         >20000         33365         49412            Particles >6µm         ASTM D7647         >5000         9780         6972            Particles >14µm         ASTM D7647         >640         1524         88            Particles >21µm         ASTM D7647         >160         380         8            Particles >38µm         ASTM D7647         >100         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1	Water		ASTM D6304	>0.2	0.002	0.006	
Particles >4μm       ASTM D7647       >20000       ▲ 33365       ▲ 49412          Particles >6μm       ASTM D7647       >5000       ▲ 9780       ● 6972          Particles >14μm       ASTM D7647       >640       ▲ 1524       88          Particles >21μm       ASTM D7647       >160       ▲ 380       8          Particles >21μm       ASTM D7647       >160       ▲ 380       8          Particles >38μm       ASTM D7647       >10       2       0          Particles >71μm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       ≥3/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4μm       ASTM D7647       >20000       A 33365       49412          Particles >6μm       ASTM D7647       >5000       9780       6972          Particles >14μm       ASTM D7647       >640       1524       88          Particles >21μm       ASTM D7647       >160       A 380       8          Particles >21μm       ASTM D7647       >160       A 380       8          Particles >38μm       ASTM D7647       >40       16       1          Particles >71μm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history1	ppm Water	ppm	ASTM D6304	>2000	24	67.9	
Particles >6µm       ASTM D7647       >5000       ▲ 9780       6972          Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >38µm       ASTM D7647       >40       16       1          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       ▲ 22/20/18       ▲ 23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >6µm       ASTM D7647       >5000       ▲ 9780       6972          Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >38µm       ASTM D7647       >40       16       1          Particles >38µm       ASTM D7647       >10       2       0          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history1	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >38µm       ASTM D7647       >40       16       1          Particles >38µm       ASTM D7647       >40       16       1          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       ≥3/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >38µm       ASTM D7647       >40       16       1          Particles >38µm       ASTM D7647       >40       16       1          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >4µm		ASTM D7647	>20000	▲ 33365	49412	
Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >38µm       ASTM D7647       >40       16       1          Particles >38µm       ASTM D7647       >40       16       1          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       ≥3/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >14µm       ASTM D7647       >640       ▲ 1524       88          Particles >21µm       ASTM D7647       >160       ▲ 380       8          Particles >21µm       ASTM D7647       >40       16       1          Particles >38µm       ASTM D7647       >40       16       1          Particles >71µm       ASTM D7647       >10       2       0          Oil Cleanliness       ISO 4406 (c)       >21/19/16       22/20/18       ≥3/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >6µm		ASTM D7647	>5000	<u> </u>	6972	
Particles >21μm         ASTM D7647         >160         ▲ 380         8            Particles >38μm         ASTM D7647         >40         16         1            Particles >38μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         ≥3/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21μm         ASTM D7647         >160         380         8            Particles >38μm         ASTM D7647         >40         16         1            Particles >37μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >14µm		ASTM D7647	>640	<b>1524</b>	88	
Particles >38μm         ASTM D7647         >40         16         1            Particles >71μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38μm         ASTM D7647         >40         16         1            Particles >71μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1			ASTM D7647	>160	<b>A</b> 380	8	
Particles >71μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >71μm         ASTM D7647         >10         2         0            Oil Cleanliness         ISO 4406 (c)         >21/19/16         22/20/18         23/20/14            FLUID DEGRADATION         method         limit/base         current         history1         history1	•		ASTM D7647	>40		1	
Oil Cleanliness       ISO 4406 (c) >21/19/16 ▲ 22/20/18 ▲ 23/20/14          FLUID DEGRADATION       method       limit/base       current       history1       history2	Oil Cleanliness       ISO 4406 (c) >21/19/16   22/20/18   23/20/14         FLUID DEGRADATION       method       limit/base       current       history1       history1	•					0	
		FLUID DEGRADA	TION	method	limit/base	current	historv1	history2

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