

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **PLANT 5 DVT 12** Component

Refrigeration Compressor Fluid {not provided} (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

## Fluid Condition

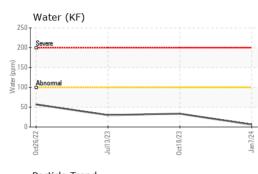
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

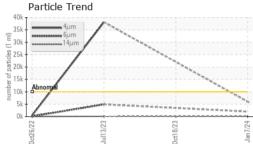
SAMPLE INFORMATION         method         limit/base         current         Nistory1         Nistory2           Sample Date         Client Info         07 Jan 2024         18 Octo223         13 Jul 2023           Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A           Sample Status         Imit/base         current         Nickol         N/A         N/A           WEAR METALS         method         Imit/base         current         Nickol         0         0           Tron         ppm         ASTM 05185m         >8         0         0         0           Titanium         ppm         ASTM 05185m         >2         0         0         0           Copper         ppm         ASTM 05185m         >2         0         0         0           Cadmium         ppm         ASTM 05185m         >2         0         0         0           Cadmium         ppm         ASTM 05185m         >2         0         0         0           Cadmium <t< th=""><th></th><th></th><th>Oct2023</th><th></th><th>Oct2023 J:</th><th>in2024</th><th></th></t<>			Oct2023		Oct2023 J:	in2024	
Sample Date         Client Info         07 Jan 2024         18 Oct 2023         13 Jul 2023           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         N/A           Sample Status         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >8         0         0         0           Nickel         ppm         ASTM 05185m         >2         0         0         0           Nickel         ppm         ASTM 05185m         2         0         0         0           Silver         ppm         ASTM 05185m         2         0         0         0           Capper         ppm         ASTM 05185m         2         0         0         0         0           Vanadium         ppm         ASTM 05185m         2         0         0         0         0           Capper         ppm         ASTM 05185m         2         0         0         0         0	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         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Trainium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >2         0         0         0           Cadmium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm	Sample Number		Client Info		USP0005082	USP0002721	USP201480
Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         nethod         imil/base         current         history1         history2           Iron         ppm         ASTM 05185n         >2         0         0         0           Nickel         ppm         ASTM 05185n         >2         0         0         0           Nickel         ppm         ASTM 05185n         >2         0         0         0           Silver         ppm         ASTM 05185n         >2         0         0         0           Copper         ppm         ASTM 05185n         >2         0         0         0           Vanadium         ppm         ASTM 05185n         >2         0         0         0           Vanadium         ppm         ASTM 05185n         >4         0         0         0           Vanadium         ppm         ASTM 05185n         0         0         0         0           Cadmium         ppm         ASTM 05185n         0         0         0         0 <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>07 Jan 2024</th><th>18 Oct 2023</th><th>13 Jul 2023</th></td<>	Sample Date		Client Info		07 Jan 2024	18 Oct 2023	13 Jul 2023
Oil Changed         Client Info         N/A         N/A         N/A         ABNORMAL         ABNORMAL           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >8         0         0         0           Chromium         ppm         ASTM D5185n         >8         0         0         0           Nickel         ppm         ASTM D5185n         >2         0         0         0           Nickel         ppm         ASTM D5185n         >2         0         0         0           Aluminum         ppm         ASTM D5185n         >2         0         0         0           Copper         ppm         ASTM D5185n         >2         0         0         0           Cadmium         ppm         ASTM D5185n         0         0         0         0           Cadmium         ppm         ASTM D5185n         0         0         0         0           ADDITIVES         method         Imit/base         current         history1         history2           Barium         ppm         ASTM D5185n         0         0         0 </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         1         0         1         0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >8         0         0         0           Ohromium         ppm         ASTM D5185m         S2         0         0         0           Nickel         ppm         ASTM D5185m         S2         0         0         -<1           Silver         ppm         ASTM D5185m         >2         0         0         -<1           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Magnaese         ppm         ASTM D5185m         <1         0         <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron         ppm         ASTM D5185m         >8         0         0         0           Nickel         ppm         ASTM D5185m         0         -1         0           Titanium         ppm         ASTM D5185m         0         0         -1           Silver         ppm         ASTM D5185m         2         0         0         -1           Astm D5185m         >2         0         0         -1         -1           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         1         0         2         1           Tin         ppm         ASTM D5185m         >8         0         0         0         0           Cadmium         ppm         ASTM D5185m         S8         1         0         2         1           Cadmium         ppm         ASTM D5185m         S8         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         4         0         0         0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>ABNORMAL</th> <th>ABNORMAL</th>	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Chromium         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         0         <1         0           Silver         ppm         ASTM D5185m         >2         0         0         <1           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >2         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         8         1         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0         0           Cadmium         ppm         ASTM D5185m         0	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         0         <1	Iron	ppm	ASTM D5185m	>8	0	0	0
Titanium         ppm         ASTM D5185m         0         0         <1	Chromium	ppm	ASTM D5185m	>2	0	0	0
Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >3         0         <1         <1           Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >8         1         0         2           Tin         ppm         ASTM D5185m         >8         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         1           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Magnaese         ppm         ASTM D5185m         0         0         0         0           Magnaese         ppm         ASTM D5185m         41         0         0         0           Sulfur         ppm         ASTM D5185m         82         82         90         0	Nickel	ppm	ASTM D5185m		0	<1	0
Aluminum         ppm         ASTM D5185m         >3         0         <1	Titanium	ppm	ASTM D5185m		0	0	<1
Lead         ppm         ASTM D5185m         >2         0         0         0           Copper         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         >4         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         1           Magnesium         ppm         ASTM D5185m         1         0         -1         1           Calcium         ppm         ASTM D5185m         4         0         0         2           Sulfur         ppm         ASTM D5185m         15         0         -1         -1           Sulfur         ppm         ASTM D5185m         15         0         -1         0	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >8         1         0         2           Tin         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         <1         0         <1         0           Calcium         ppm         ASTM D5185m         <1         0         <1         0           Sulfur         ppm         ASTM D5185m         <37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1 <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;3</th> <th>0</th> <th>&lt;1</th> <th>&lt;1</th>	Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Tin         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         <1	Lead	ppm	ASTM D5185m	>2	0	0	0
Tin         ppm         ASTM D5185m         >4         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         <1           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         <1         0         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         2         90         2         1         0         <1         0         <1         0         <1         0         0         2         1         0         0         0         2         1         0         0         2         1         1         0         0         1         1         1         0         1         1         1         0         1         1         1         1         1         1	Copper		ASTM D5185m	>8	1	0	2
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>4	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           Molybdenum         ppm         ASTM D5185m         <1         0         <1           Magnesse         ppm         ASTM D5185m         <1         0         <1           Magnessum         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         0         <1           Sulfur         ppm         ASTM D5185m         82         82         90           Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >0         <1         <1      S	Vanadium		ASTM D5185m		0	0	<1
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         2         0           Phosphorus         ppm         ASTM D5185m         82         82         90           Zinc         ppm         ASTM D5185m         87         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         <1         0           Vater         %         ASTM D5185m         >20         0         <1         0           Vater         %         ASTM D5185m         >20         0	Cadmium		ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         2         0           Phosphorus         ppm         ASTM D5185m         82         82         90           Zinc         ppm         ASTM D5185m         82         82         90           Sulfur         ppm         ASTM D5185m         87         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         <1         0           Water         %         ASTM D5185m         >20         0         <1         0           Particles >4µm         ASTM D7647         >1000<	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         2         0           Phosphorus         ppm         ASTM D5185m         82         82         90           Zinc         ppm         ASTM D5185m         82         82         90           Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         20         0         <1         0           Water         %         ASTM D5185m         >20         0         <1         0           Water         %         ASTM D6304         >0.01         0.001         0.003         0.003           particles >4µm         ASTM D7647         >200	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Magnesium         ppm         ASTM D5185m         <1		ppm	ASTM D5185m		<1	0	<1
Phosphorus         ppm         ASTM D5185m         82         82         90           Zinc         ppm         ASTM D5185m         4         0         0           Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1	-	ppm	ASTM D5185m		<1	0	<1
Zinc         ppm         ASTM D5185m         4         0         0           Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m<>15         0         <1         <1           Sodium         ppm         ASTM D5185m<>15         0         <1         <1           Potassium         ppm         ASTM D5185m<>20         0         <1         0           Water         %         ASTM D6304         >0.01         0.003         0.003           ppm Water         ppm         ASTM D6304         >100         6         33.6         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         6013          38120           Particles >6µm         ASTM D7647         >2500         2019          4911           Particles >1µm         ASTM D7647         >320         210          108           Particles >21µm         ASTM D7647	Calcium	ppm	ASTM D5185m		<1	2	0
Zinc         ppm         ASTM D5185m         4         0         0           Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >15         0         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         <1         0           Water         %         ASTM D5304         >0.01         0.001         0.003         0.003           pm Water         ppm         ASTM D6304         >100         6         33.6         30.0           FLUID CLEANLINESS         method         imit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         6013          38120           Particles >6µm         ASTM D7647         >2500         2019          4911           Particles >1µm         ASTM D7647         >20         4          108	Phosphorus	ppm	ASTM D5185m		82	82	90
Sulfur         ppm         ASTM D5185m         37         33         87           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         0         <1         <1           Sodium         ppm         ASTM D5185m         >15         0         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         <1         0           Water         %         ASTM D6304         >0.01         0.001         0.003         0.003           ppm Water         ppm         ASTM D7647         >100         6         33.6         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >2500         2019          38120           Particles >6µm         ASTM D7647         >220         210          38120           Particles >14µm         ASTM D7647         >20         210          23           Particles >21µm         ASTM D7647         >20         4          10 <th></th> <th></th> <th>ASTM D5185m</th> <th></th> <th>4</th> <th>0</th> <th>0</th>			ASTM D5185m		4	0	0
Silicon       ppm       ASTM D5185m       >15       0       <1       <1         Sodium       ppm       ASTM D5185m       0       2       1         Potassium       ppm       ASTM D5185m       >20       0       <1       0         Water       %       ASTM D6304       >0.01       0.001       0.003       0.003         ppm Water       ppm       ASTM D6304       >100       6       33.6       30.0         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >10000       6013        A 38120         Particles >6µm       ASTM D7647       >2500       2019        A 911         Particles >6µm       ASTM D7647       >320       210        108         Particles >21µm       ASTM D7647       >80       62        23         Particles >71µm       ASTM D7647       >20       4        0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       20/18/15        22/19/14         FLUID DEGRADATION       method       limit/base       current	Sulfur		ASTM D5185m		37	33	87
Sodium         ppm         ASTM D5185m         0         2         1           Potassium         ppm         ASTM D5185m         >20         0         <1         0           Water         %         ASTM D6304         >0.01         0.001         0.003         0.003           ppm Water         ppm         ASTM D6304         >100         6         33.6         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         6013          ▲ 38120           Particles >6µm         ASTM D7647         >2500         2019          ▲ 4911           Particles >14µm         ASTM D7647         >320         210          108           Particles >21µm         ASTM D7647         >80         62          1           Particles >38µm         ASTM D7647         >20         4          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         Current         history1         history2           FLUID DEGRADATION         method         limit/base         current         history1 <t< th=""><th>CONTAMINANTS</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         <1	Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Potassium         ppm         ASTM D5185m         >20         0         <1	Sodium		ASTM D5185m		0	2	1
Water         %         ASTM D6304         >0.01         0.001         0.003         0.003           ppm Water         ppm         ASTM D6304         >100         6         33.6         30.0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         6013          ▲ 38120           Particles >6µm         ASTM D7647         >2500         2019          ▲ 4911           Particles >6µm         ASTM D7647         >320         210          108           Particles >14µm         ASTM D7647         >80         62          23           Particles >38µm         ASTM D7647         >20         4          0           Particles >71µm         ASTM D7647         >4         0          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         20/18/15          4         22/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium		ASTM D5185m	>20	0	<1	0
FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>100006013 $\blacktriangle$ 38120Particles >6µmASTM D7647>25002019 $\checkmark$ 4911Particles >14µmASTM D7647>320210108Particles >21µmASTM D7647>806223Particles >38µmASTM D7647>2041Particles >71µmASTM D7647>400Oil CleanlinessISO 4406 (c)>20/18/1520/18/15 $\checkmark$ 22/19/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Water		ASTM D6304	>0.01	0.001	0.003	0.003
Particles >4µm       ASTM D7647       >10000       6013        A 38120         Particles >6µm       ASTM D7647       >2500       2019        A 911         Particles >14µm       ASTM D7647       >320       210        108         Particles >21µm       ASTM D7647       >80       62        23         Particles >38µm       ASTM D7647       >20       4        1         Particles >71µm       ASTM D7647       >4       0        0         Oil Cleanliness       ISO 4406 (c)       >20/18/15       20/18/15        22/19/14	ppm Water	ppm	ASTM D6304	>100	6	33.6	30.0
Particles >6μm       ASTM D7647       >2500       2019        ▲ 4911         Particles >14μm       ASTM D7647       >320       210        108         Particles >21μm       ASTM D7647       >80       62        23         Particles >38μm       ASTM D7647       >20       4        1         Particles >38μm       ASTM D7647       >20       4        0         Oli Cleanliness       ISO 4406 (c)       >20/18/15       20/18/15        22/19/14         FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >6μm       ASTM D7647       >2500       2019        ▲ 4911         Particles >14μm       ASTM D7647       >320       210        108         Particles >21μm       ASTM D7647       >80       62        23         Particles >38μm       ASTM D7647       >20       4        1         Particles >38μm       ASTM D7647       >20       4        0         Oli Cleanliness       ISO 4406 (c)       >20/18/15       20/18/15        22/19/14         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>10000	6013		▲ 38120
Particles >21μm         ASTM D7647         >80         62          23           Particles >38μm         ASTM D7647         >20         4          1           Particles >37μm         ASTM D7647         >4         0          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         20/18/15          Δ22/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>2500	2019		<b>4</b> 911
Particles >38μm         ASTM D7647         >20         4          1           Particles >71μm         ASTM D7647         >4         0          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         20/18/15          Δ 22/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>320	210		108
Particles >71μm         ASTM D7647         >4         0          0           Oil Cleanliness         ISO 4406 (c)         >20/18/15         20/18/15          Δ 22/19/14           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>80	62		23
Oil Cleanliness       ISO 4406 (c) >20/18/15       20/18/15        22/19/14         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >38µm		ASTM D7647	>20	4		1
Oil Cleanliness       ISO 4406 (c) >20/18/15       20/18/15        22/19/14         FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D7647	>4	0		0
			ISO 4406 (c)	>20/18/15	20/18/15		<b>2</b> 2/19/14
	FLUID DEGRADA		method	limi <u>t/base</u>	current	history1	history2

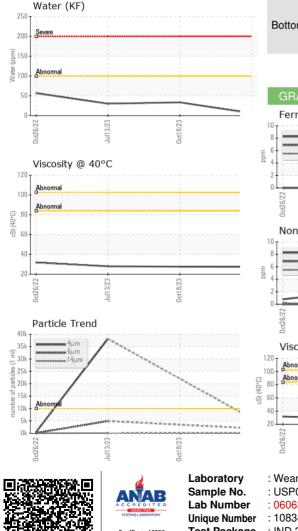
Contact/Location: Service Manager - HILDAL



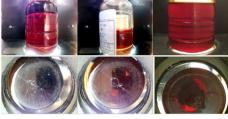
# **OIL ANALYSIS REPORT**



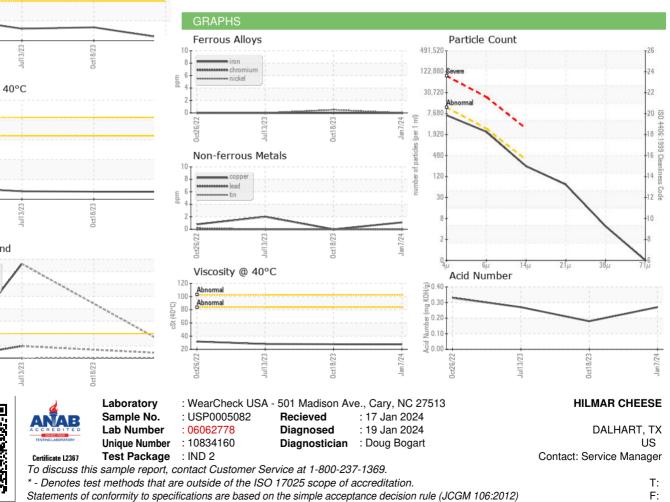




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		27.5	27.6	28.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					a. 10	



Bottom



Contact/Location: Service Manager - HILDAL