

# **OIL ANALYSIS REPORT**

# Sample Rating Trend



Machine Id **50813** Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

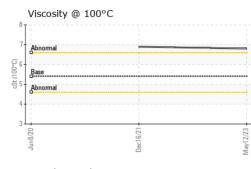
## Fluid Condition

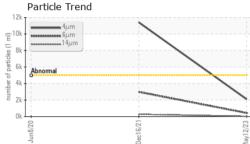
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

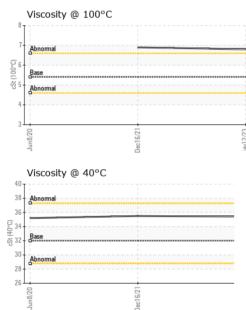
Nickel         ppm         ASTM D5185m         >10         0         0         <11	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         Not Changd         N/A         Not Changd           Sample Status         Imited         Imited         Nor Changd         ABNORMAL         ABNORMAL           WEAR METALS         method         Imite/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         <1         1           Chromium         ppm         ASTM D5185m         >10         0         0         <1           Nickel         ppm         ASTM D5185m         >10         0         0         0           Silver         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >10         0         0         0           Codedmium         ppm         ASTM D5185m         5         0         4         0           Codedmium         ppm         ASTM D5185m         5         0         0         0	Sample Number		Client Info		WC0753655	WC0612884	WC0463958
Oil Age         Ins         Client Info         0         0         0         0           Oil Changed         Client Info         Not Changd         N/A         Not Changd           Sample Status         Client Info         Nor RMAL         ABNORMAL         ABNORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         <1         1           Chromium         ppm         ASTM D5185m         >10         0         0         <1           Nickel         ppm         ASTM D5185m         >10         0         0         0           Silver         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >10         0         0         0           Cadmium         ppm         ASTM D5185m         >10         0         0         0           Cadmium         ppm         ASTM D5185m         5         0         4         0           Cadmium         ppm         ASTM D5185m         5         0         0         0	Sample Date		Client Info		12 May 2023	16 Dec 2021	08 Jun 2020
Oil Changed Sample Status         Client Info         Not Changd NORMAL         N/A         Not Changd ABNORMAL           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         <1         1           Chromium         ppm         ASTM D5185m         >10         0         0         <1           Nickel         ppm         ASTM D5185m         >10         0         0         <1           Nickel         ppm         ASTM D5185m         >10         0         0         <1           Lead         ppm         ASTM D5185m         >10         0         0         <1           Copper         ppm         ASTM D5185m         >10         0         0         <1           Vanadium         ppm         ASTM D5185m         >10         0         0         0           Astm D5185m         >10         0         0         0         0         0           Astm D5185m         0         0         0         0         0         0           Astm D5185m         5         0         4         0         0         0	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5165m         >20         <1         <1         1           Chromium         ppm         ASTM D5165m         >20         <1         <1         1           Nickel         ppm         ASTM D5165m         >10         0         0         <1           Nickel         ppm         ASTM D5165m         0         0         0         0           Aluminum         ppm         ASTM D5165m         0         0         0         0           Aluminum         ppm         ASTM D5165m         10         0         0         0         0           Aluminum         ppm         ASTM D5165m         >10         0         0         0         0           Adminum         ppm         ASTM D5165m         0         0         0         0         0           Cadmium         ppm         ASTM D5165m         0         0         0         0           Adminum         ppm         ASTM D5165m         5         0         0         0           Adminum         ppm         ASTM D5165m	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >20         <1         <1         1           Chromium         ppm         ASTM 05185m         >10         0         0         <1           Nickel         ppm         ASTM 05185m         0         0         0         0           Silver         ppm         ASTM 05185m         0         0         0         0           Auminum         ppm         ASTM 05185m         >10         0         0         0           Lead         ppm         ASTM 05185m         >10         0         0         0           Auminum         ppm         ASTM 05185m         >10         0         0         0           Antimony         ppm         ASTM 05185m         0         0         0         0           Antimony         ppm         ASTM 05185m         0         0         0         0           Antimony         ppm         ASTM 05185m         5         0         0         0           Antimony         ppm         ASTM 05185m         5         0         0         0 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>N/A</th> <th>Not Changd</th>	Oil Changed		Client Info		Not Changd	N/A	Not Changd
Iron         ppm         ASTM D5185m         >20         <1	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Chromium         ppm         ASTM 05185m         >10         0         0         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >10         0         0         <11	Iron	ppm	ASTM D5185m	>20	<1	<1	1
Titanium         ppm         ASTM D5185m         0         0         0           Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         <1           Copper         ppm         ASTM D5185m         >75         2         3         2           Tin         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Additium         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         5         0         0         0         0           Magnesium         ppm         ASTM D5185m         20         0         0         0           Galcium         ppm         ASTM D5185m         20         5         0         0         0     <	Chromium	ppm	ASTM D5185m	>10	0	0	<1
Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         <1           Copper         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m         10         0         0         0           Adamium         ppm         ASTM D5185m         10         0         0         0           Adamium         ppm         ASTM D5185m         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         5         0         0         0           Magnesium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         20         5196         3702         4132	Nickel	ppm	ASTM D5185m	>10	0	0	<1
Aluminum         ppm         ASTM D5185m         >10         0         0         0         <11	Titanium	ppm	ASTM D5185m		0	0	0
Lead         ppm         ASTM D5185m         >10         0         0         <1	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >75         2         3         2           Tin         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m         0         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         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         1           Magnesium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         imit/base         current         history1	Aluminum	ppm	ASTM D5185m	>10	0	0	0
Tin         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m          0         7           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         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         1           Magnese         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         50         533         59           Sulfur         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Si	Lead	ppm	ASTM D5185m	>10	0	0	<1
Tin         ppm         ASTM D5185m         >10         0         0         0           Antimony         ppm         ASTM D5185m          0         7           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         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         1           Magnasese         ppm         ASTM D5185m         25         0         0         0           Galcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         50         533         59           Sulfur         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         imit/base         current         history1         history2           S	Copper	ppm	ASTM D5185m	>75	2	3	2
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         25         0         0         0           Magnesium         ppm         ASTM D5185m         250         53         59           Phosphorus         ppm         ASTM D5185m         200         50         53         59           Sulfur         ppm         ASTM D5185m         200         50         53         59           Sulfur         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2 <th></th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;10</th> <th>0</th> <th>0</th> <th>0</th>		ppm	ASTM D5185m	>10	0	0	0
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         4         0           Magnese         ppm         ASTM D5185m         5         0         0         1           Magnesium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         50         533         59           Sulfur         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         0         0 <th< th=""><th>Antimony</th><th>ppm</th><th>ASTM D5185m</th><th></th><th></th><th>0</th><th>7</th></th<>	Antimony	ppm	ASTM D5185m			0	7
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         0           Manganese         ppm         ASTM D5185m         5         0         0         1           Manganese         ppm         ASTM D5185m          1         0         0           Magnesium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         50         53         59           Sulfur         ppm         ASTM D5185m         200         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         5         0         4         0           Barium         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         5         0         0         1           Manganese         ppm         ASTM D5185m         25         0         0         0           Magnesium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         300         359         334         374           Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         5         0         0         0           Molybdenum         ppm         ASTM D5185m         5         0         0         1           Manganese         ppm         ASTM D5185m         25         0         0         0           Magnesium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         300         359         334         374           Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         5         0         0         1           Manganese         ppm         ASTM D5185m         <1         0         0           Magnesium         ppm         ASTM D5185m         25         0         0         0           Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         300         359         334         374           Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         0         0         0           Patricles >4µm         pm         ASTM D7647         >5000         2102         11399            Patricles >4µm         ASTM D7647         >160         23	Boron	ppm	ASTM D5185m	5	0	4	0
Manganese         ppm         ASTM D5185m         <	Barium	ppm	ASTM D5185m	5	0	0	0
Magnesium       ppm       ASTM D5185m       25       0       0       0         Calcium       ppm       ASTM D5185m       200       50       53       59         Phosphorus       ppm       ASTM D5185m       300       359       334       374         Zinc       ppm       ASTM D5185m       370       443       424       480         Sulfur       ppm       ASTM D5185m       2500       5196       3702       4132         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       <1	Molybdenum	ppm	ASTM D5185m	5	0	0	1
Calcium         ppm         ASTM D5185m         200         50         53         59           Phosphorus         ppm         ASTM D5185m         300         359         334         374           Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         11399            Particles >14µm         ASTM D7647         >160         23         277            Particles >21µm         ASTM D7647         >40         6	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus         ppm         ASTM D5185m         300         359         334         374           Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         11399            Particles >6µm         ASTM D7647         >1300         429         2986            Particles >1µm         ASTM D7647         >10         0         5            Particles >38µm         ASTM D7647         >3         0         0	Magnesium	ppm	ASTM D5185m	25	0	0	0
Zinc         ppm         ASTM D5185m         370         443         424         480           Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         ▲ 11399            Particles >6µm         ASTM D7647         >160         23         ▲ 277            Particles >14µm         ASTM D7647         >40         6             Particles >38µm         ASTM D7647         >10         0         5            Particles >71µm         ASTM D7647         3         0         0 <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>200</th> <th>50</th> <th>53</th> <th>59</th>	Calcium	ppm	ASTM D5185m	200	50	53	59
Sulfur         ppm         ASTM D5185m         2500         5196         3702         4132           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         11399            Particles >6µm         ASTM D7647         >100         23         277            Particles >21µm         ASTM D7647         >10         0         5            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0 <tr< th=""><th>Phosphorus</th><th>ppm</th><th>ASTM D5185m</th><th>300</th><th>359</th><th>334</th><th>374</th></tr<>	Phosphorus	ppm	ASTM D5185m	300	359	334	374
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         <1         <1         <1           Sodium         ppm         ASTM D5185m         >20         <1         <1         <1           Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         11399            Particles >6µm         ASTM D7647         >160         23         277            Particles >14µm         ASTM D7647         >10         0         5            Particles >21µm         ASTM D7647         >3         0         0            Particles >38µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/12         21/19/15            FLUID DEGRADATION         method         limit/base         current         history1         history2	Zinc	ppm	ASTM D5185m	370	443	424	480
Silicon       ppm       ASTM D5185m       >20       <1	Sulfur	ppm	ASTM D5185m	2500	5196	3702	4132
Sodium         ppm         ASTM D5185m         <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         2102         11399            Particles >6µm         ASTM D7647         >1300         429         2986            Particles >6µm         ASTM D7647         >160         23         277            Particles >14µm         ASTM D7647         >40         6         66            Particles >21µm         ASTM D7647         >10         0         5            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/12         21/19/15            FLUID DEGRADATION         method         limit/base         current         history1         history2	Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >5000       2102       ▲ 11399          Particles >6µm       ASTM D7647       >1300       429       ▲ 2986          Particles >14µm       ASTM D7647       >160       23       ▲ 277          Particles >21µm       ASTM D7647       >40       6       ▲ 66          Particles >21µm       ASTM D7647       >10       0       5          Particles >38µm       ASTM D7647       >3       0       0          Particles >71µm       ASTM D7647       >3       0       0          Oil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/12       21/19/15          FLUID DEGRADATION       method       limit/base       current       history1       history2	Sodium	ppm	ASTM D5185m		<1	<1	<1
Particles >4μm       ASTM D7647       >5000       2102       11399          Particles >6μm       ASTM D7647       >1300       429       2986          Particles >14μm       ASTM D7647       >160       23       277          Particles >21μm       ASTM D7647       >40       6       66          Particles >21μm       ASTM D7647       >40       6       66          Particles >38μm       ASTM D7647       >10       0       5          Particles >71μm       ASTM D7647       >3       0       0          Oil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/12       21/19/15          FLUID DEGRADATION       method       limit/base       current       history1       history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
Particles >6µm       ASTM D7647       >1300       429       ▲ 2986          Particles >14µm       ASTM D7647       >160       23       ▲ 277          Particles >21µm       ASTM D7647       >40       6       ▲ 66          Particles >21µm       ASTM D7647       >40       6       ▲ 66          Particles >38µm       ASTM D7647       >10       0       5          Particles >71µm       ASTM D7647       >3       0       0          Oil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/12       ▲ 21/19/15          FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >160       23       ▲ 277          Particles >21µm       ASTM D7647       >40       6       ▲ 66          Particles >38µm       ASTM D7647       >10       0       5          Particles >38µm       ASTM D7647       >3       0       0          Particles >71µm       ASTM D7647       >3       0       0          Oil Cleanliness       ISO 4406 (c)       >19/17/14       18/16/12       ▲ 21/19/15          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>5000	2102	🔺 11399	
Particles >21μm         ASTM D7647         >40         6         ▲ 66            Particles >38μm         ASTM D7647         >10         0         5            Particles >371μm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/12         ≥1/19/15            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>1300	429	<b>2</b> 986	
Particles >38μm         ASTM D7647         >10         0         5            Particles >71μm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/12         21/19/15            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>160	23	<b>A</b> 277	
Particles >71μm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/16/12         ▲ 21/19/15            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>40	6	<b>▲</b> 66	
Oil CleanlinessISO 4406 (c) >19/17/1418/16/1221/19/15FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Particles >38µm		ASTM D7647	>10	0	5	
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	<b>1</b> /19/15	
Acid Number (AN)         mg KOH/g         ASTM D8045         0.57         0.29         0.277         0.429	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.29	0.277	0.429

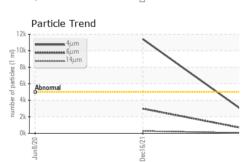


# **OIL ANALYSIS REPORT**





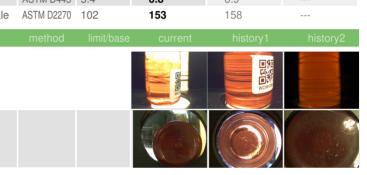


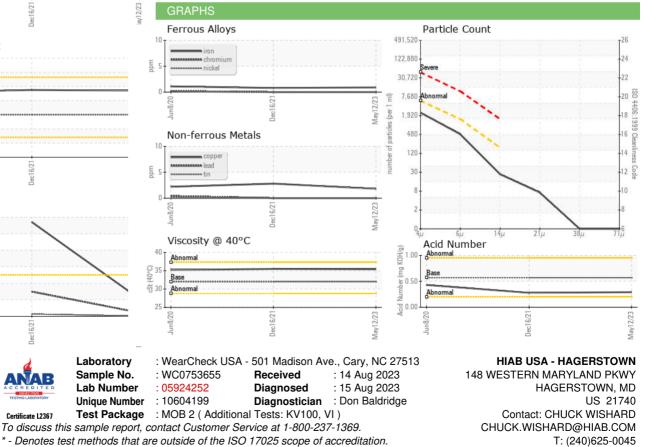


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	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	32	35.4	35.5	35.2
Visc @ 100°C	cSt	ASTM D445	5.4	6.8	6.9	
Viscosity Index (VI)	Scale	ASTM D2270	102	153	158	
SAMPLE IMAGES		method	limit/base	current	history1	history2



Bottom





\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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