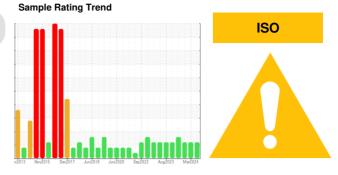


# **OIL ANALYSIS REPORT**

412
Machine Id
71 BANBURY MOTOR

Component
Outboard Journal Bearing

ESSO NUTO H ISO 68 (1 QTS)



### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

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

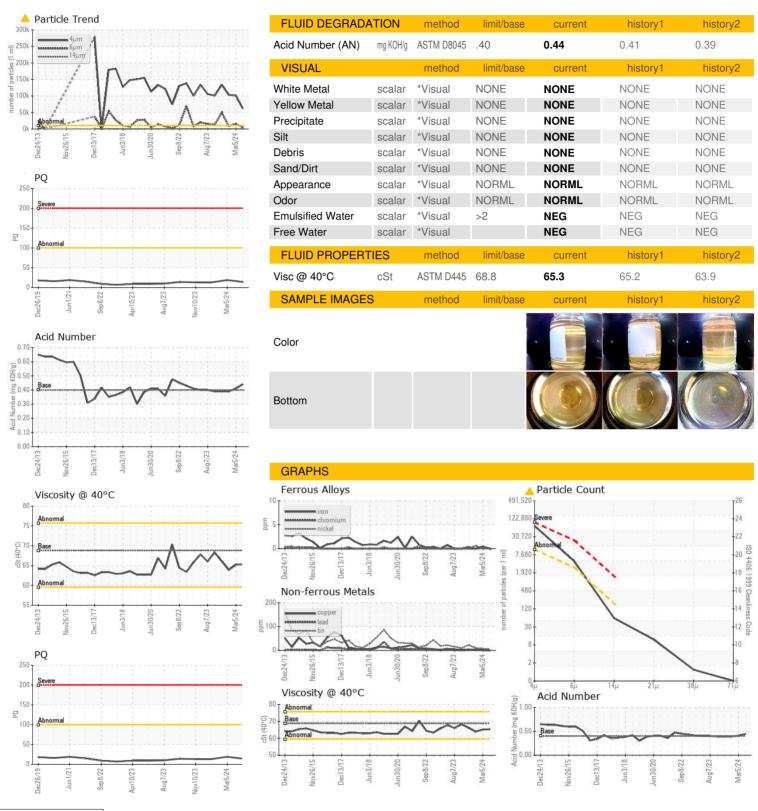
#### **Fluid Condition**

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

Sample Number         Client Info         WC0912138         WC0479423         WC0838889           Sample Date         Client Info         09 Apr 2024         05 Mar 2024         15 Feb 2024           Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         400         0         0           Oil Age         hrs         Client Info         0         400         0         0           Oil Age         hrs         Client Info         Changed         NA         ABNORMAL							
Sample Date         Client Info         09 Apr 2024         05 Mar 2024         15 Feb 2024           Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         400         0           Oil Age         hrs         Client Info         Changed         N/A           Sample Status         Client Info         Changed         N/A           ABNORMAL         ABNORMAL         ABNORMAL         ABNORMAL           CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         ≥2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D5185m         >60         0         <1	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         400         0         0           Oil Changed         hrs         Client Info         Changed         ADNORMAL         ABNORMAL         ABNORMAL <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <th>WC0912138</th> <td>WC0479423</td> <td>WC0838869</td>	Sample Number		Client Info		WC0912138	WC0479423	WC0838869
Oil Changed	Sample Date		Client Info		09 Apr 2024	05 Mar 2024	15 Feb 2024
Client Info	Machine Age	hrs	Client Info		0	0	0
ABNORMAL   ABNORMAL	Oil Age	hrs	Client Info		0	400	0
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D5185m         >60         0         <1         0           Iron         ppm         ASTM D5185m         >60         0         <1         0           Chromium         ppm         ASTM D5185m         >20         0         <1         0           Nickel         ppm         ASTM D5185m         >20         0         0         <1           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >0         0         0         0           Lead         ppm         ASTM D5185m         >250         0         0         1         <1           Copper         ppm         ASTM D5185m         >10         0         0         0         0           Caddmium         ppm         ASTM D5185m         0         0         0	Oil Changed		Client Info		Changed	Changed	N/A
Water         WC Method         ≥2         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         14         19         13           Iron         ppm         ASTM D5185m         >60         0         <1	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         14         19         13           Iron         ppm         ASTM D8185m         >60         0         <1         0           Chromium         ppm         ASTM D5185m         >20         0         <1         0           Nickel         ppm         ASTM D5185m         >20         0         0         <1           Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >250         0         0         1           Lead         ppm         ASTM D5185m         >125         0         2         <1           Copper         ppm         ASTM D5185m         >80         6         7         10           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Bar	CONTAMINATION		method	limit/base	current	history1	history2
PQ ASTM D8184 14 19 13  Iron ppm ASTM D5185m >60 0 <1 0  Chromium ppm ASTM D5185m >20 0 <1 0  Nickel ppm ASTM D5185m >20 0 0 <1 0  Titanium ppm ASTM D5185m >20 0 0 0  Aluminum ppm ASTM D5185m >4 0 0 0  Aluminum ppm ASTM D5185m >4 0 1 <1 <1  Lead ppm ASTM D5185m >250 0 0 0  Aluminum ppm ASTM D5185m >4 0 1 <1 <1  Lead ppm ASTM D5185m >250 0 0 0 1  Copper ppm ASTM D5185m >250 0 0 0 1  Copper ppm ASTM D5185m >0 0 0 0 0  ADDITIVES	Water		WC Method	>2	NEG	NEG	NEG
Iron	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >20         0         <1         0           Nickel         ppm         ASTM D5185m         >20         0         0         <1           Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >4         0         1         <1           Aluminum         ppm         ASTM D5185m         >4         0         1         <1           Lead         ppm         ASTM D5185m         >4         0         1         <1           Copper         ppm         ASTM D5185m         >2250         0         0         1           Copper         ppm         ASTM D5185m         >80         6         7         10           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0	PQ		ASTM D8184		14	19	13
Nickel	Iron	ppm	ASTM D5185m	>60	0	<1	0
Titanium ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >4 0 1 1 <1 Lead ppm ASTM D5185m >250 0 0 1 Copper ppm ASTM D5185m >125 0 2 <1 Tin ppm ASTM D5185m >80 6 7 10 Vanadium ppm ASTM D5185m >80 6 7 10 Vanadium ppm ASTM D5185m >0 0 0 0 Cadmium ppm ASTM D5185m >0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0  ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 5 <1 2 6 Calcium ppm ASTM D5185m 330 349 313 349 Zinc ppm ASTM D5185m 330 349 313 349 Sulfur ppm ASTM D5185m 3100 3509 2975 5387  CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m >50 2 2 1 Sodium ppm ASTM D5185m >0 0 <1 1 1 Potassium ppm ASTM D5185m 0 0 <1 1 1 Potassium ppm ASTM D5185m 0 0 <1 1 1 Potassium ppm ASTM D5185m >0 0 1 1 2  FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D5647 >10000 61547  100865  103149 Particles >21μm ASTM D7647 >10000 61547  100865  8183 Particles >21μm ASTM D7647 >10 1 1 1 0 Particles >38μm ASTM D7647 >10 1 1 1 0 Particles >38μm ASTM D7647 >10 1 1 1 0 Particles >38μm ASTM D7647 >10 1 1 1 0	Chromium	ppm	ASTM D5185m	>20	0	<1	0
Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >4         0         1         <1           Lead         ppm         ASTM D5185m         >250         0         0         1           Copper         ppm         ASTM D5185m         >125         0         2         <1           Tin         ppm         ASTM D5185m         >80         6         7         10           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           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1         2         6	Nickel	ppm	ASTM D5185m	>20	0	0	<1
Aluminum         ppm         ASTM D5185m         >4         0         1         <1           Lead         ppm         ASTM D5185m         >250         0         0         1           Copper         ppm         ASTM D5185m         >125         0         2         <1           Tin         ppm         ASTM D5185m         >80         6         7         10           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           Barium         ppm         ASTM D5185m         0         0         0         0           Manganesium         ppm         ASTM D5185m         0         0         0         0           Quicium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         30         349         313         3	Titanium	ppm	ASTM D5185m		0	0	0
Lead         ppm         ASTM D5185m         >250         0         0         1           Copper         ppm         ASTM D5185m         >125         0         2         <1	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >125         0         2         <1           Tin         ppm         ASTM D5185m         >80         6         7         10           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         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Manganesium         ppm         ASTM D5185m         5         <1	Aluminum	ppm	ASTM D5185m	>4	0	1	<1
Tin	Lead	ppm	ASTM D5185m	>250	0	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         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         >50         2         2         2         1	Copper	ppm	ASTM D5185m	>125	0	2	<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           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1	Tin	ppm	ASTM D5185m	>80	6	7	10
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         5         <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Manganese         ppm         ASTM D5185m         5         <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         >20         0         <1         1           Potassium         ppm         ASTM D5647         >10000	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         2         1           Sodium         ppm         ASTM D5185m         >20         0         <1         1           Potassium         ppm         ASTM D5185m         >20         0         <1         2           FLUID CLEANLINESS         method         limit/base         current<	Boron	ppm	ASTM D5185m	0	0	0	0
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         >50         2         2         1           Potassium         ppm         ASTM D5185m         >20         0         <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium         ppm         ASTM D5185m         5         <1         2         6           Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         >50         2         2         1           Potassium         ppm         ASTM D5185m         >20         0         <1         2           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         61547         100865         103149           Particles >6µm         ASTM D7647         >2500	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium         ppm         ASTM D5185m         50         52         50         54           Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         >50         2         2         1           Potassium         ppm         ASTM D5185m         >20         0         <1	Manganese	nnm	AOTA DELOE		0		
Phosphorus         ppm         ASTM D5185m         330         349         313         349           Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         >50         2         2         1           Potassium         ppm         ASTM D5185m         >20         0         <1         1           Potassium         ppm         ASTM D5185m         >20         0         <1         2           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000         61547         100865         103149           Particles >6μm         ASTM D7647         >2500         4071         15656         8183           Particles >21μm         ASTM D7647         >40		ppiii	ASTM D5185m		U	0	0
Zinc         ppm         ASTM D5185m         420         428         404         457           Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         0         <1         1           Potassium         ppm         ASTM D5185m         >20         0         <1         2           FLUID CLEANLINESS         method         limit/base         current         history1         history2           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >10000         61547         100865         103149           Particles >6µm         ASTM D7647         >2500         4071         15656         8183           Particles >21µm         ASTM D7647         >40         10         19         11           Particles >38µm         ASTM D7647         >10	Magnesium			5			
Sulfur         ppm         ASTM D5185m         3100         3509         2975         5387           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         0         <1		ppm	ASTM D5185m		<1	2	6
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         2         2         1           Sodium         ppm         ASTM D5185m         0         <1	Calcium	ppm ppm	ASTM D5185m ASTM D5185m	50	<1 52	2 50	6 54
Solicon   ppm   ASTM D5185m   >50   2   2   1	Calcium phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 330	<1 52 349	2 50 313	6 54 349
Sodium         ppm         ASTM D5185m         0         <1	Calcium   Phosphorus   Calcium   Cal	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 330 420	<1 52 349 428	2 50 313 404	6 54 349 457
Potassium         ppm         ASTM D5185m         >20         0         <1         2           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000         ▲ 61547         ▲ 100865         ▲ 103149           Particles >6μm         ASTM D7647         >2500         ● 4071         ▲ 15656         ▲ 8183           Particles >14μm         ASTM D7647         >160         52         135         61           Particles >21μm         ASTM D7647         >40         10         19         11           Particles >38μm         ASTM D7647         >10         1         1         0           Particles >71μm         ASTM D7647         >3         0         0         0	Calcium   Phosphorus   Zinc   Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 330 420 3100	<1 52 349 428 3509	2 50 313 404 2975	6 54 349 457 5387
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >10000         ▲ 61547         ▲ 100865         ▲ 103149           Particles >6μm         ASTM D7647         >2500         ● 4071         ▲ 15656         ▲ 8183           Particles >14μm         ASTM D7647         >160         52         135         61           Particles >21μm         ASTM D7647         >40         10         19         11           Particles >38μm         ASTM D7647         >10         1         1         0           Particles >71μm         ASTM D7647         >3         0         0         0	Calcium   Phosphorus   Phosphorus   Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	50 330 420 3100 limit/base	<1 52 349 428 3509 current	2 50 313 404 2975 history1	6 54 349 457 5387 history2
Particles >4μm       ASTM D7647       >10000       61547       Δ 100865       Δ 103149         Particles >6μm       ASTM D7647       >2500       4071       Δ 15656       Δ 8183         Particles >14μm       ASTM D7647       >160       52       135       61         Particles >21μm       ASTM D7647       >40       10       19       11         Particles >38μm       ASTM D7647       >10       1       1       0         Particles >71μm       ASTM D7647       >3       0       0       0	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	50 330 420 3100 limit/base	<1 52 349 428 3509 current	2 50 313 404 2975 history1	6 54 349 457 5387 history2
Particles >6μm       ASTM D7647       >2500       4071       Δ 15656       Δ 8183         Particles >14μm       ASTM D7647       >160       52       135       61         Particles >21μm       ASTM D7647       >40       10       19       11         Particles >38μm       ASTM D7647       >10       1       1       0         Particles >71μm       ASTM D7647       >3       0       0       0	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 330 420 3100 limit/base >50	<1 52 349 428 3509 current 2	2 50 313 404 2975 history1 2 <1	6 54 349 457 5387 history2 1
Particles >14μm       ASTM D7647       >160       52       135       61         Particles >21μm       ASTM D7647       >40       10       19       11         Particles >38μm       ASTM D7647       >10       1       1       0         Particles >71μm       ASTM D7647       >3       0       0       0	Calcium Phosphorus Jinc Sulfur  CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 330 420 3100 limit/base >50 >20	<1 52 349 428 3509 current 2 0	2 50 313 404 2975 history1 2 <1 <1	6 54 349 457 5387 history2 1 1
Particles >21μm       ASTM D7647       >40       10       19       11         Particles >38μm       ASTM D7647       >10       1       1       0         Particles >71μm       ASTM D7647       >3       0       0       0	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE	ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 330 420 3100 limit/base >50 >20 limit/base	<1 52 349 428 3509 current 2 0 current	2 50 313 404 2975 history1 2 <1 <1	6 54 349 457 5387 history2 1 1 2
Particles >38μm       ASTM D7647 >10       1       1       0         Particles >71μm       ASTM D7647 >3       0       0       0	Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 330 420 3100 limit/base >50 >20 limit/base >10000	<1 52 349 428 3509 current 2 0 current 4 61547	2 50 313 404 2975 history1 2 <1 <1 history1	6 54 349 457 5387 history2 1 1 2 history2
Particles >38μm       ASTM D7647       >10       1       1       0         Particles >71μm       ASTM D7647       >3       0       0       0	Calcium Phosphorus Fluid	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m	50 330 420 3100 limit/base >50 >20 limit/base >10000 >2500	<1 52 349 428 3509 current 2 0 current  61547 4071	2 50 313 404 2975 history1 2 <1 <1 history1  100865  15656	6 54 349 457 5387 history2 1 1 2 history2  103149 8183
Particles >71μm ASTM D7647 >3 <b>0</b> 0	Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	50 330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160	<1 52 349 428 3509 current 2 0 current  61547 4071 52	2 50 313 404 2975 history1 2 <1 <1 history1  100865 15656 135	6 54 349 457 5387 history2 1 1 2 history2  1 103149  8183 61
	Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	50 330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160 >40	<1 52 349 428 3509 current 2 0 0 current  461547 4071 52 10	2 50 313 404 2975 history1 2 <1 <1 history1  100865 15656 135 19	6 54 349 457 5387 history2 1 1 2 history2  1 103149 8183 61 11
	Calcium Phosphorus Jinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	50 330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160 >40 >10	<1 52 349 428 3509	2 50 313 404 2975 history1 2 <1 <1 history1  100865 135 19 1	6 54 349 457 5387 history2 1 1 2 history2  1 103149  8183 61 11 0



## OIL ANALYSIS REPORT







Certificate 12367

Report Id: BRIDES [WUSCAR] 06148548 (Generated: 04/17/2024 13:24:15) Rev: 1

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0912138 : 06148548 Unique Number : 10978626

Received : 15 Apr 2024 **Tested** 

: 16 Apr 2024 Diagnosed Test Package: IND 2 (Additional Tests: PQ, PrtCount)

: 17 Apr 2024 - Don Baldridge

**BRIDGESTONE FIRESTONE - DES MOINES** 4600 NW 2ND AVE DES MOINES, IA US 50313

Contact: SCOTT CARTER CarterScottA@FirestoneAg.com T: x:

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: SCOTT CARTER - BRIDES

F: x: