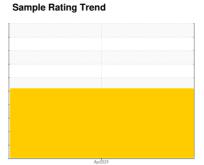


PROBLEM SUMMARY

[185829-N2STV4W] **STAR FIRE DOT 3 BRAKE FLUID - TAP**

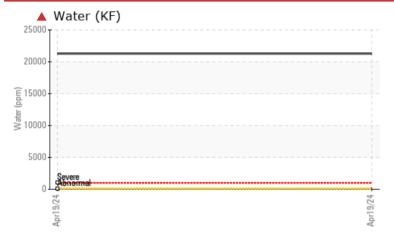
New (Unused) Oil

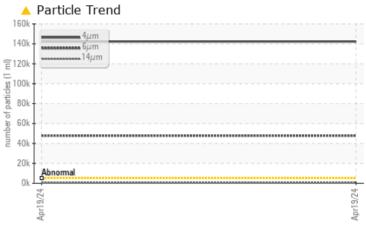
{not provided} (--- GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS										
Sample Status				SE	VERE					
Water	%	ASTM D6304			2.128					
ppm Water	ppm	ASTM D6304		\blacktriangle	21289					
Particles >4µm		ASTM D7647	>5000		142356					
Particles >6µm		ASTM D7647	>1300	_	47807					
Particles >14µm		ASTM D7647	>160		519					
Particles >21µm		ASTM D7647	>40		51					
Oil Cleanliness		ISO 4406 (c)	>19/17/14		24/23/16					
PrtFilter						no image	no image			

Customer Id: HYSBER Sample No.: PH06156512 **Lab Number:** 06156512 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

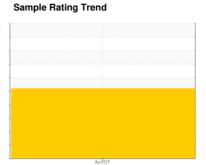


OIL ANALYSIS REPORT

[185829-N2STV4W] STAR FIRE DOT 3 BRAKE FLUID - TAP

New (Unused) Oil

{not provided} (--- GAL)





DIAGNOSIS

▲ Recommendation

This is a baseline read-out on the submitted sample.

▲ Contamination

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

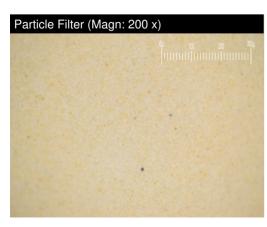
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH06156512		
Sample Date		Client Info		19 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	3		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>5	0		
Lead	ppm	ASTM D5185m	>5	0		
Copper	ppm	ASTM D5185m	>5	3		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		67		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		18		
Phosphorus	ppm	ASTM D5185m		11		
Zinc	ppm	ASTM D5185m		8		
Sulfur	ppm	ASTM D5185m		51		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		15		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304		2.128		
ppm Water	ppm	ASTM D6304		1 21289		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	142356		
Particles >6µm		ASTM D7647	>1300	47807		
Particles >14µm		ASTM D7647	>160	_ 519		
Particles >21µm		ASTM D7647	>40	<u>^</u> 51		
Particles >38µm		ASTM D7647	>10	2		
r-						

ASTM D7647 >3

mg KOH/g ASTM D8045

ISO 4406 (c) >19/17/14 **24/23/16**

0.80



Particles >71µm

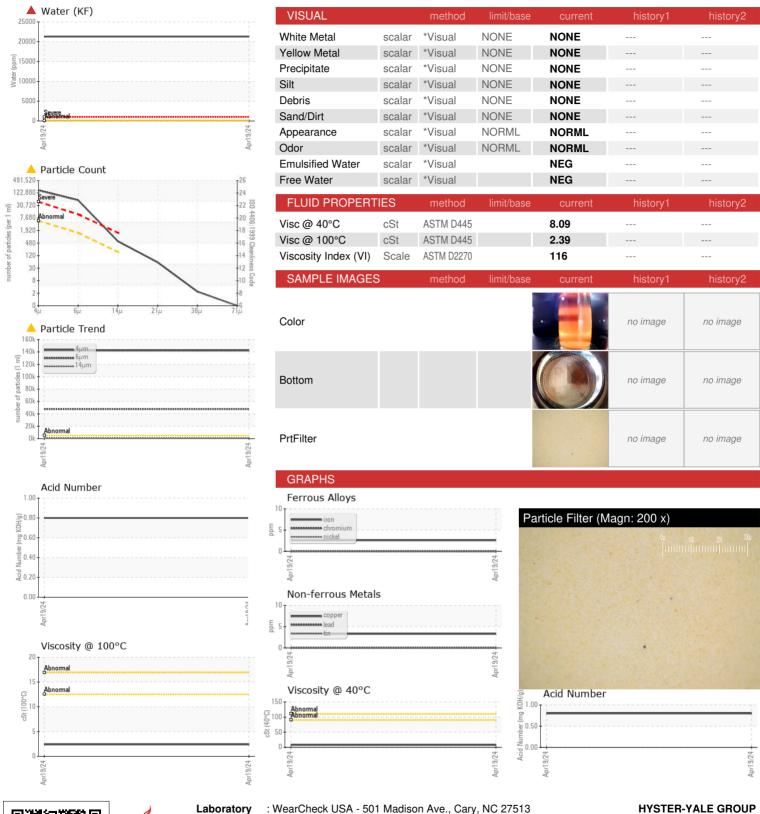
Oil Cleanliness

Acid Number (AN)

FLUID DEGRADATION



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

Laboratory

: PH06156512 : 06156512 Unique Number : 10991935

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

Received **Tested** Diagnosed

: 22 Apr 2024 : 24 Apr 2024

: 24 Apr 2024 - Jonathan Hester

Test Package : PLANT (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtFilter, VI) Contact: WARREN WILLIAMS

warren.williams@hyster-yale.com T: (859)228-1524

 st - 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)

BEREA, KY

US 40403

2200 MENELAUS PIKE