

OIL ANALYSIS REPORT

Sample Rating Trend



TEST STAND 1

Component

Hydraulic System

SAFETY-KLEEN PERFORMANCE PLUS HYD

Recommendation

Resample at the next service interval to monitor.

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.

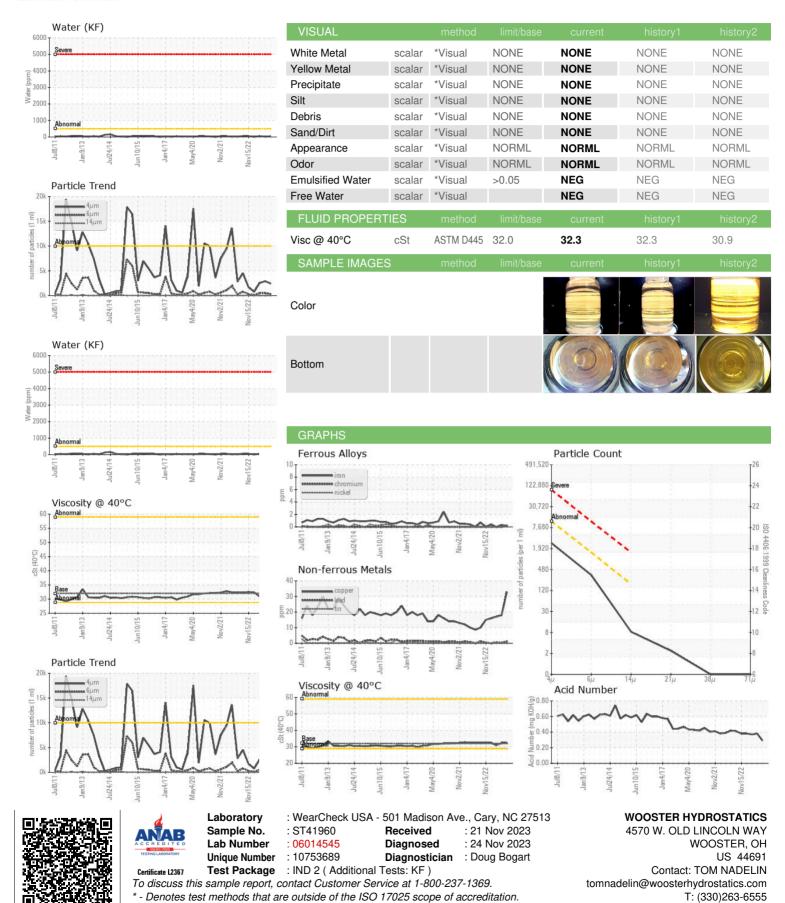
Fluid Condition

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

YD. AW32 (300 GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST41960	ST41954	ST41962
Sample Date		Client Info		14 Nov 2023	14 Aug 2023	02 May 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>40	<1	<1	0
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	0	<1	0
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>60	33	18	17
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	11	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0.0	<1	0	<1
Calcium	ppm	ASTM D5185m	35	52	46	54
Phosphorus	ppm	ASTM D5185m	324	421	364	383
Zinc	ppm	ASTM D5185m	400	500	427	478
Sulfur	ppm	ASTM D5185m	1528	1212	1068	1090
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water	%	ASTM D6304	>0.05	0.003	0.003	0.004
ppm Water	ppm	ASTM D6304	>500	36	28.0	47.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	2408	2908	2528
Particles >6µm		ASTM D7647	>1300	294	475	477
Particles >14µm		ASTM D7647	>160	7	7	3
Particles >21µm		ASTM D7647		2	2	1
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	18/15/10	19/16/10	19/16/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.29	0.38	0.37



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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