

Wax Cups

OIL ANALYSIS REPORT

Sample Rating Trend



POS 37 Unknown Component Flui

TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

Area

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

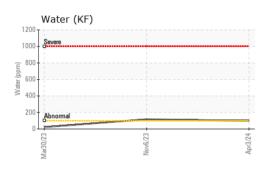
Fluid Condition

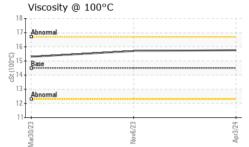
The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

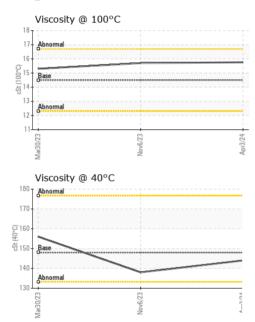
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002188	TO50001964	TO50001598
Sample Date		Client Info		03 Apr 2024	06 Nov 2023	30 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		84	55	1 03
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m		5	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	3	<1
Lead	ppm	ASTM D5185m		<1	<1	0
Copper	ppm	ASTM D5185m		13	9	16
Tin	ppm	ASTM D5185m		<1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	13	1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m		1	2	10
Calcium	ppm	ASTM D5185m		8	2	0
Phosphorus	ppm	ASTM D5185m	170	292	200	226
Zinc	ppm	ASTM D5185m		26	12	29
Sulfur	ppm	ASTM D5185m	6300	4664	3023	5865
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		3435	848	🔺 1869
Sodium	ppm					
oouluin	ppin	ASTM D5185m		6	0	4
Potassium	ppm	ASTM D5185m ASTM D5185m	>20	6 2	0 3	4
			>20			
Potassium	ppm	ASTM D5185m	>20	2	3	1
Potassium Water	ppm % ppm	ASTM D5185m ASTM D6304	>20 limit/base	2 0.009	3 0.011	1 0.002
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	limit/base	2 0.009 99	3 0.011 117.3 history1 ▲ 24608	1 0.002 23.0
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method	limit/base	2 0.009 99 current	3 0.011 117.3 history1	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	limit/base	2 0.009 99 current	3 0.011 117.3 history1 ▲ 24608	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	limit/base >5000 >1300	2 0.009 99 current 	3 0.011 117.3 history1 ▲ 24608 ▲ 1417	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160	2 0.009 99 current 	3 0.011 117.3 history1 ▲ 24608 ▲ 1417 38	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10	2 0.009 99 current 	3 0.011 117.3 ▲ 24608 ▲ 1417 38 12 1 1 1	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10	2 0.009 99 current 	3 0.011 117.3 history1 ▲ 24608 ▲ 1417 38 12 12	1 0.002 23.0 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm % ppm ESS	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10 >3	2 0.009 99 current 	3 0.011 117.3 ▲ 24608 ▲ 1417 38 12 1 1 1	1 0.002 23.0 history2



OIL ANALYSIS REPORT

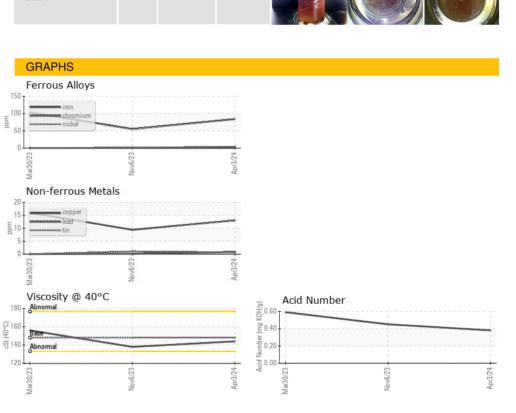






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		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	148	144	138	156
Visc @ 100°C	cSt	ASTM D445	14.5	15.76	15.7	15.3
Viscosity Index (VI)	Scale	ASTM D2270	96	113	118	98
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 DART CONTAINER CORPORATION Sample No. : TO50002188 Received : 08 Apr 2024 4444 W LEADBETTER DR \$ Lab Number : 06141325 Tested : 15 Apr 2024 DALLAS, TX Unique Number : 10966133 Diagnosed : 15 Apr 2024 - Jonathan Hester US 75236 Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: YON PALOMINO Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. yon.palomino@dart.biz * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (214)775-5673 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: YON PALOMINO

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