WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

[8000376355]

GROVE TMS745 236303

Component

Lydraulia System

Hydraulic System AW HYDRAULIC OIL ISO 22 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Lioton/1	Lioton/2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as (GENERIC) AW HYDRAULIC OIL ISO 22, however, a fluid match indicates that this fluid is SAE 75W80 Tractor TDH Fluid. Please confirm the oil type and grade on your next sample.	Sample Number	UOIVI	Client Info	LIIIIUADII	VCP352908	History1 VCP391900	History2
	Sample Date		Client Info		20 Sep 2023	16 Jun 2023	
	Machine Age	hrs	Client Info		3659	3638	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1110	Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status		Glione iino		ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>20	1	2	
WEAT	Chromium	ppm	ASTM D5185(m)		0	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1	0	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		<1	0	
	Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	
	Lead	ppm	ASTM D5185(m)		0	0	
	Copper	ppm	ASTM D5185(m)	>75	1	2	
	Tin	ppm	ASTM D5185(m)	>10	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		6	9	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185(m)		2	10	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		3538	1191	
	Particles >6µm		ASTM D7647		918	504	
	Particles >14µm		ASTM D7647		77	59 15	
	Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647		30	15 1	
	Particles >30µm		ASTM D7647		0	1	
	Oil Cleanliness		ISO 4406 (c)		19/17/13	17/16/13	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance		Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water		Visual*	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		6	10	
Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	5	87	67	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		1	16	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)	25	13	11	
	Calcium	ppm	ASTM D5185(m)	200	3089	2593	
	Phosphorus	ppm	ASTM D5185(m)	300	1018	964	
	Zinc	ppm	ASTM D5185(m)	370	1293	1127	
	C If		ACTM DE40E()	0500	0500	0007	

Sulfur Visc @ 40°C 2397

44.9

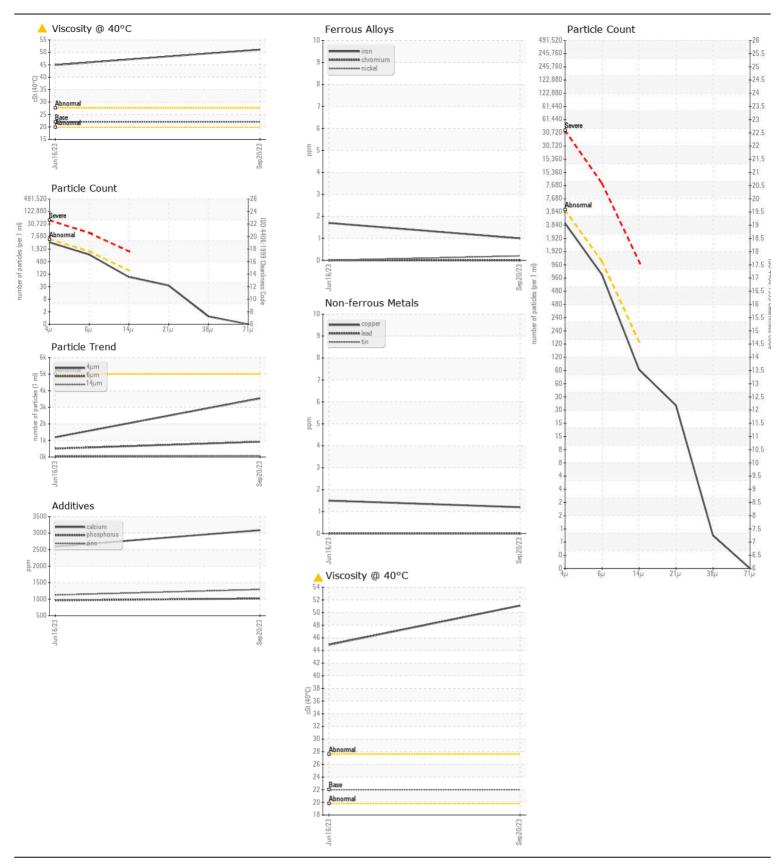
2506

51.1

ppm ASTM D5185(m) 2500

ASTM D7279(m) 22

cSt





ISO 17025:2017
Accredited
Laboratory

Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: VCP352908 **Received**: 25 Sep 2023

Test Package: MOB 1 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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