WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Machine Id

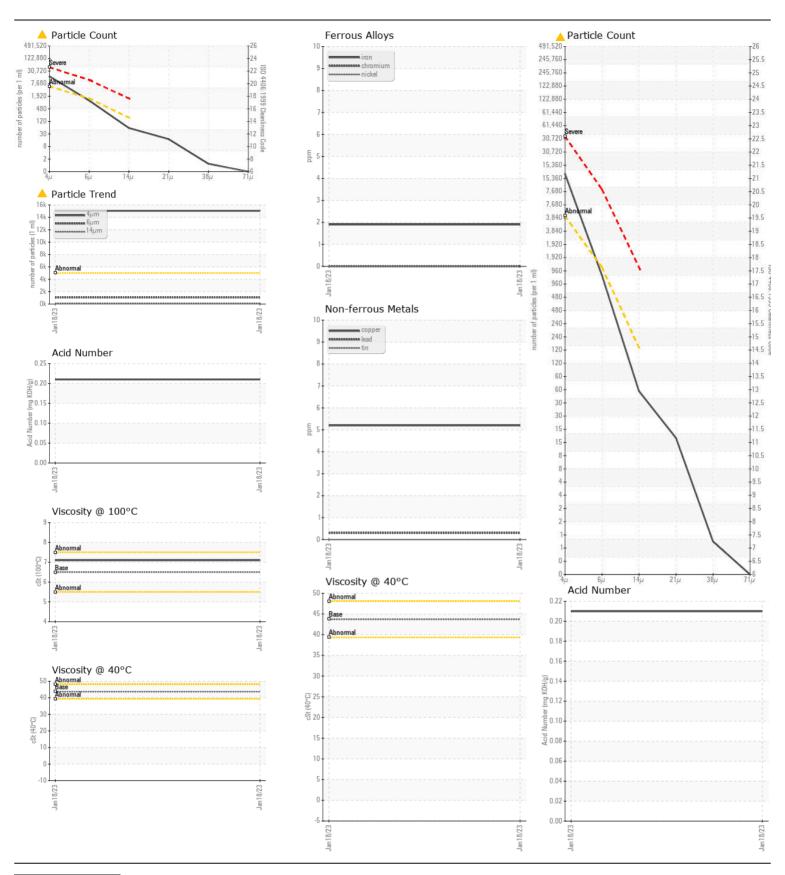
DAKOTA FLUID POWER 2018590 2018590 - MASTER

Pump Hydraulic System

OIL ANALYSIS REPORT

CHEVRON HYDRAULIC OIL AW ISO 46 (80 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR05750246		
	Sample Date		Client Info		18 Jan 2023		
	Machine Age	yrs	Client Info		0		
	Oil Age	yrs	Client Info		3		
	Filter Age	yrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>20	2		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	<1		
	Lead	ppm	ASTM D5185m	>10	<1		
	Copper	ppm	ASTM D5185m	>75	5		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	6		
CONTAMINATION	Potassium	ppm	ASTM D5185m		4		
There is a high amount of silt (particulates < 6 microns in size) present in the oil.	Water	ppm	WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		▲ 15054		
	Particles >6µm		ASTM D7647		1052		
	Particles >14μm		ASTM D7647		51		
	Particles >21µm		ASTM D7647		15		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/17/13		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
THUD CONDITION	0 - 45		AOTM DE LOS		•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		1		
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		0		
		ppm	ASTM D5185m		0 2		
	Magnesium Calcium	ppm	ASTM D5185m		85		
	Phosphorus	ppm	ASTM D5185m		229		
	Zinc	ppm	ASTM D5185m		35		
	Sulfur	ppm	ASTM D5185m		300		
	Acid Number (AN)	mg KOH/g	ASTM D3163111		0.21		
	Visc @ 100°C		ASTM D6045 ASTM D445	6.5	7.1		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05750246

Unique Number: 10309850 Test Package : MOB 2 (Additional Tests: KV100)

Received : TR05750246 **Tested**

: 25 Jan 2023 Diagnosed

: 27 Jan 2023 : 27 Jan 2023 - Jonathan Hester

CHENEY, WA US 99004 Contact: RONALD GROGAN

9025 S CRAIG RD

HIGHLINE GRAIN GROWERS

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

T: F: