WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

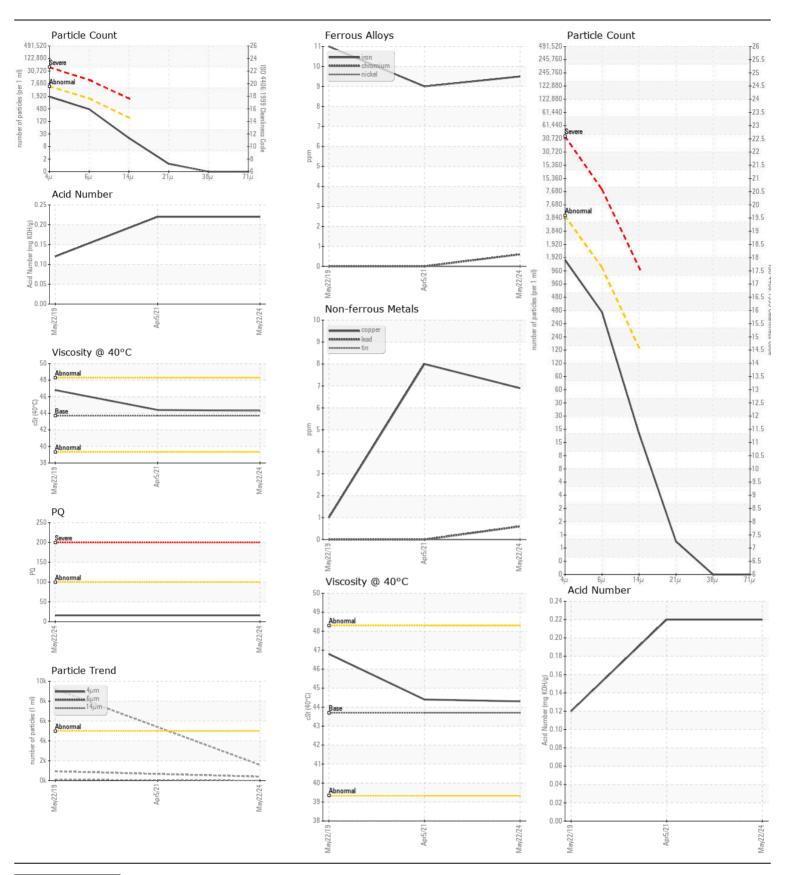
GM Seattle Off Raod Shop

[GM Seattle Off Raod Shop] 24-747

Hydraulic System

CHEVRON HYDRAULIC OIL AW ISO 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend an early resample to monitor this condition.	Sample Number		Client Info		PE0003032	PE12291343	PE1229194
	Sample Date		Client Info		22 May 2024	05 Apr 2021	22 May 201
	Machine Age	hrs	Client Info		3919	2116	1276
	Oil Age	hrs	Client Info		3919	0	1276
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	PQ		ASTM D8184		16		
	Iron	ppm	ASTM D5185m	>20	10	9	11
Iron ppm levels are marginal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	<1	1
	Aluminum	ppm	ASTM D5185m	>10	2	1	0
	Lead	ppm	ASTM D5185m	>10	<1	0	0
	Copper	ppm	ASTM D5185m	>75	7	8	1
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	3	2
CONTAINMATION	Potassium	ppm	ASTM D5185m		<1	0	4
The water content is negligible. There is no indication of any contamination in the oil.	Water	ррпп	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		1584		9199
	Particles >6μm		ASTM D7647		404		941
	Particles >14µm		ASTM D7647		17		115
	Particles >21µm		ASTM D7647		1		36
	Particles >38µm		ASTM D7647		0		4
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		18/16/11	22/17/10	20/17/1
	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		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		<1	0	
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		4	2	0
	Calcium	ppm	ASTM D5185m		151	162	13
	Phosphorus	ppm	ASTM D5185m		416	404	355
	Zinc	ppm	ASTM D5185m		227	153	60
	Sulfur	ppm	ASTM D5185m		1062		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.22	0.22	0.12
	Visc @ 40°C	cSt	ASTM D445	43.7	44.3	44.4	46.8





Laboratory Sample No. Lab Number Unique Number : 11083547

: PE0003032

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06210683 **Tested**

Diagnosed Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

: 18 Jun 2024 : 18 Jun 2024 - Angela Borella

: 14 Jun 2024

Gary Merlino Construction - Off Road Shop 9125 10TH AVE SOUTH SEATTLE, WA US 98108 Contact: Jesse Patterson

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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F:

Page 2 of 2

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