



## Area GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 24-481 Component Hydraulic System Fluid

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PE0001013	PE12291649	
	Sample Date		Client Info		06 Dec 2023	09 Apr 2020	
	Machine Age	hrs	Client Info		2769	2240	
	Oil Age	hrs	Client Info		900	373	
	Filter Age	hrs	Client Info		900		
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed Sample Status		Client Info		Changed NORMAL	 NORMAL	
	Sample Status				NORMAL	NORIVIAL	
WEAR All component wear rates are normal.	PQ		ASTM D8184		11		
	Iron	ppm	ASTM D5185m	>20	3	7	
	Chromium	ppm	ASTM D5185m	>10	<1	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>10	2	1	
	Lead	ppm	ASTM D5185m	>10	<1	1	
	Copper	ppm	ASTM D5185m		2	4	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	4	
CONTAMINATION	Potassium	ppm	ASTM D5185m		- <1	0	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water	pp	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		3321		
	Particles >6µm		ASTM D7647		359		
	Particles >14µm		ASTM D7647	>160	26		
	Particles >21µm		ASTM D7647	>40	8		
	Particles >38µm		ASTM D7647	>10	1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		19/16/12	16/15/12	
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	5	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	1	
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		3	8	
	Calcium	ppm	ASTM D5185m		78	108	
	Phosphorus	ppm	ASTM D5185m		420	394	
	Zinc	ppm	ASTM D5185m		474	492	

Sulfur

ppm ASTM D5185m

Acid Number (AN) mg KOH/g ASTM D8045

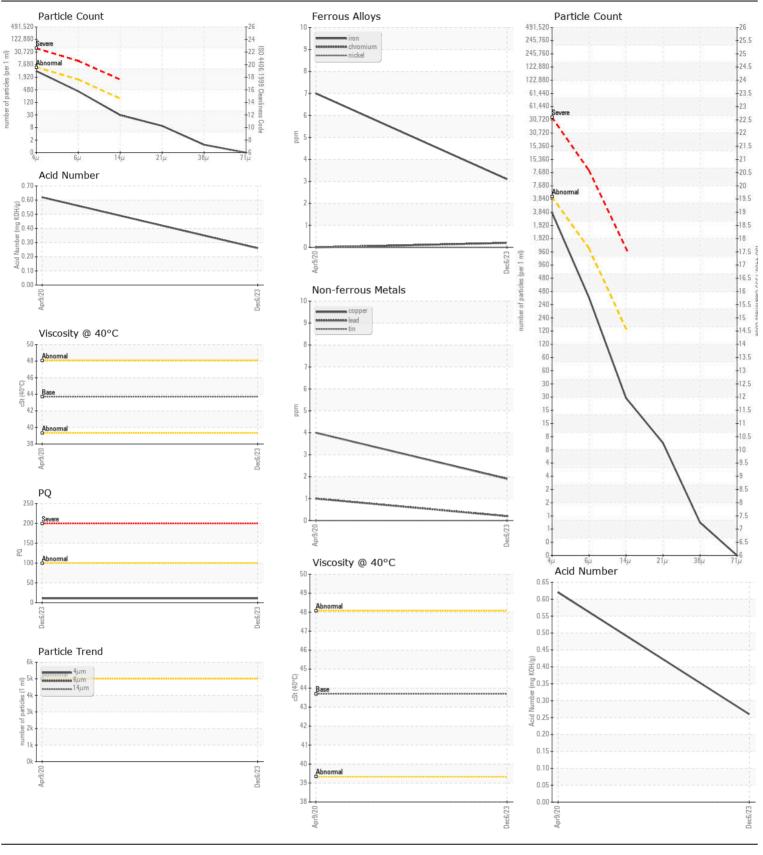
Visc @ 40°C cSt ASTM D445 43.7

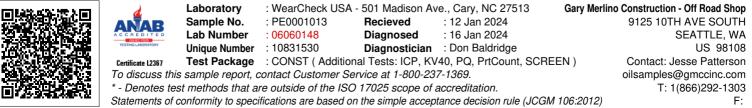
1110

0.26

43.9

0.62





Submitted By: Stoneway Concrete - Seattle - Jesse Patterson